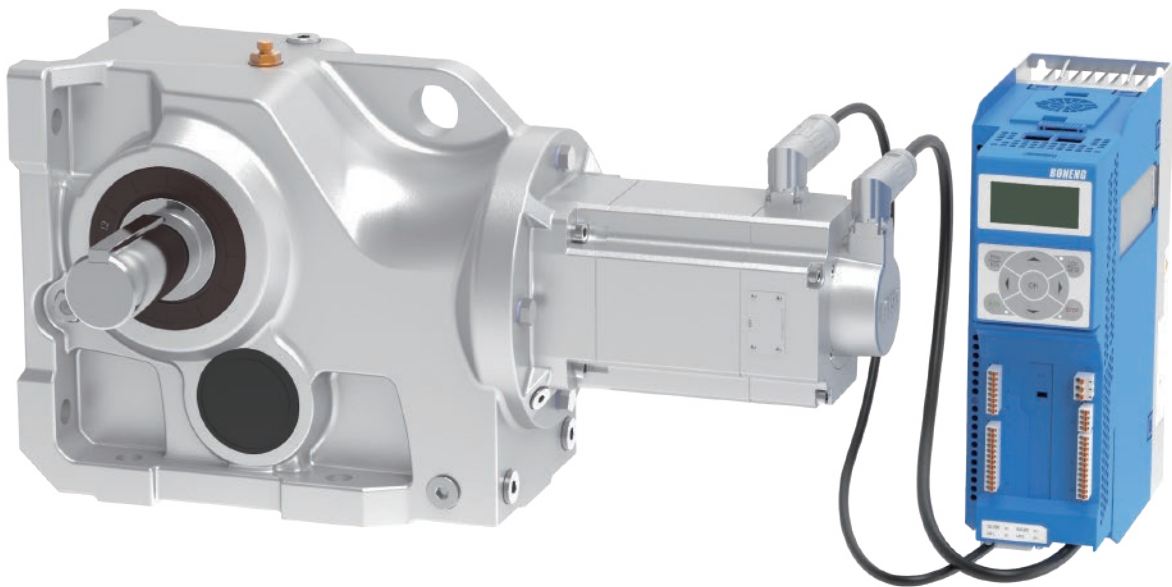
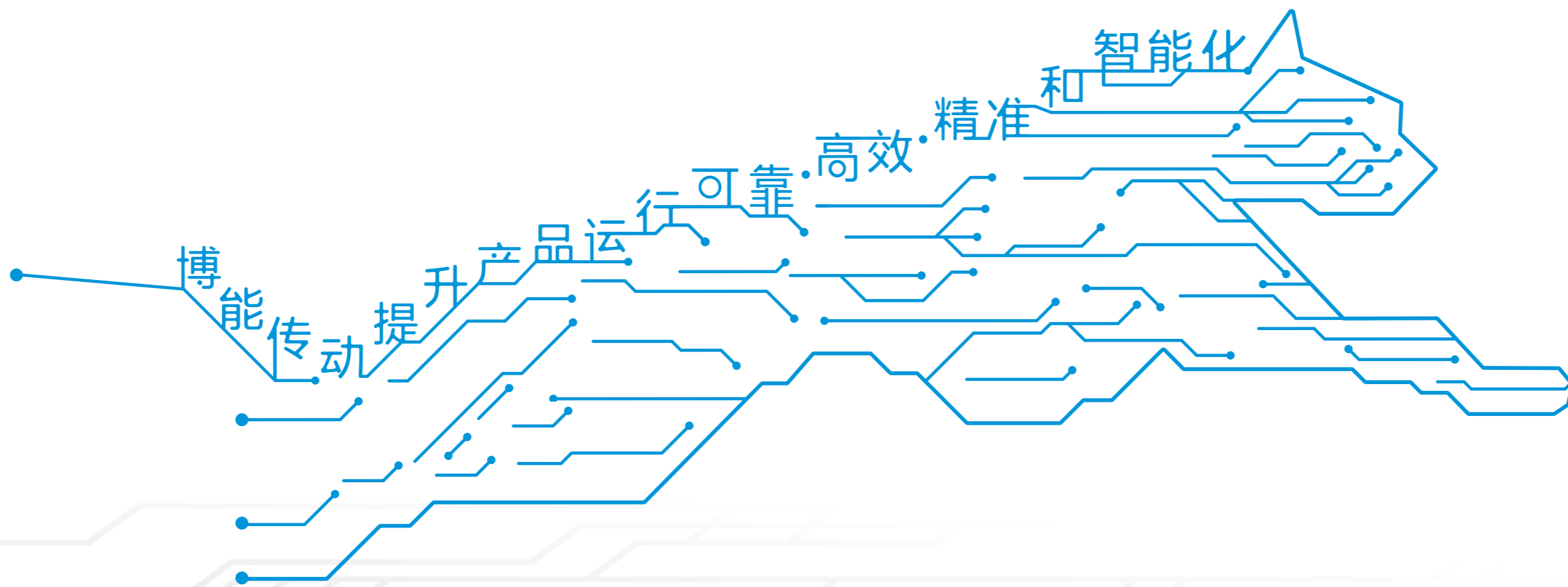


# BONENG



**K-MX斜齿锥齿轮伺服马达  
&AX伺服驱动器(0.28kW~9.11kW)** 编辑日期 07/2023  
选型样本 C05.0042-CN

**博能传动**



控制器/驱动器/马达/齿轮马达/齿轮箱

## **选型注意事项：**

- ◆ 结构示意图、外形图及其他附图只属范例，无严格比例要求。（未注尺寸单位均为mm）。
- ◆ 所注重量仅为平均值，并不具有约束力。
- ◆ 注油量只作为参考值，实际注油量应以油镜上的标记为准。

## **⚠使用注意事项：**

- ◆ 为防止意外事故发生，所有旋转部件均按照使用者所在国家和地区的安全规范由购置方加罩保护。
- ◆ 试车之前必须认真阅读使用说明书。
- ◆ 齿轮马达在供货时已处于准运行状态，运行前需加注润滑油。
- ◆ 齿轮马达应由熟悉相关安全要求的专业人员安装；安装时必须有安全装置以防止事故发生，安装位置必须符合规定。

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## 伺服齿轮马达

### 1. 型号表示方法

K 3 04 H A - C71 - D1 0 1 -

系列名

传动级数

3级

机座号

安装形式

H=底脚安装

F=法兰安装

S=小法兰安装

A=轴装式安装

T=带底面扭力臂附件安装

M=带侧面扭力臂附件安装

输出形式

A/B/D/E=单向平键实心轴

C/F=双向平键实心轴

G/H=平键空心轴

I/J=锁紧盘空心轴

K/L=渐开线花键空心轴

公称减速比代号

安装方位

D1/D2/D3/D4/D5/D6

可选附件和指定配置

0=无可选附件和指定配置

1=齿轮非常规安装

6=补偿油箱

B=齿轮非常规安装和补偿油箱

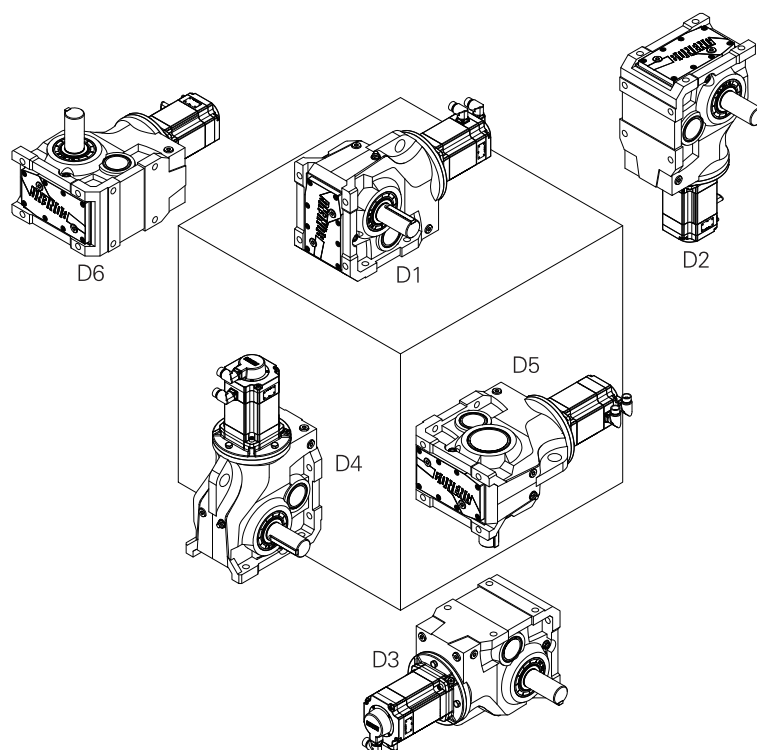
润滑油代号

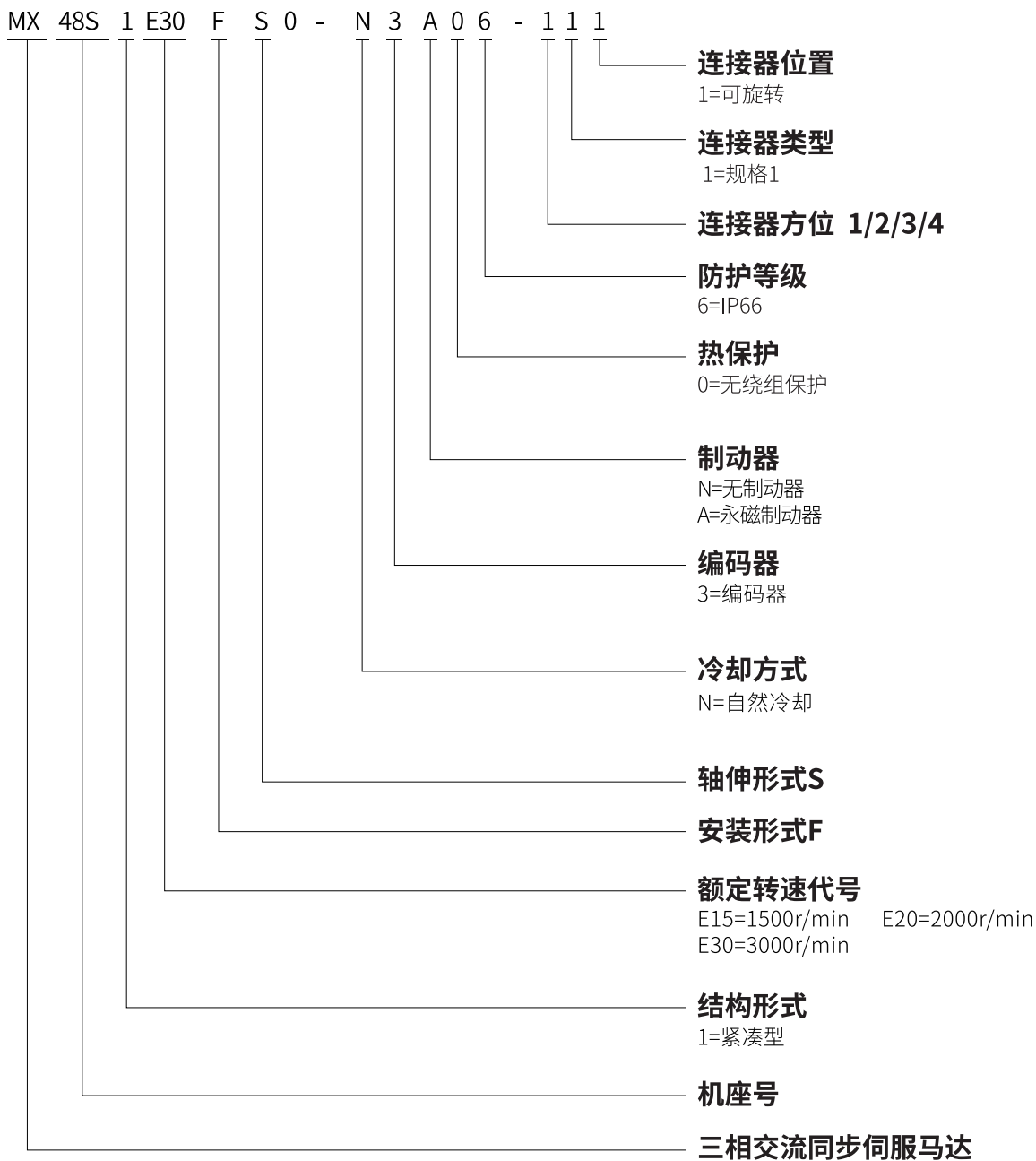
0=不加润滑油（不加油出厂时，请选此项）

1=矿物润滑油VG220（环境温度为-20°C~+40°C，需加油出厂时，请选此项）

5=合成润滑油VG220（环境温度<0°C，需加油出厂时，推荐选用此项）

### 2. 安装方位

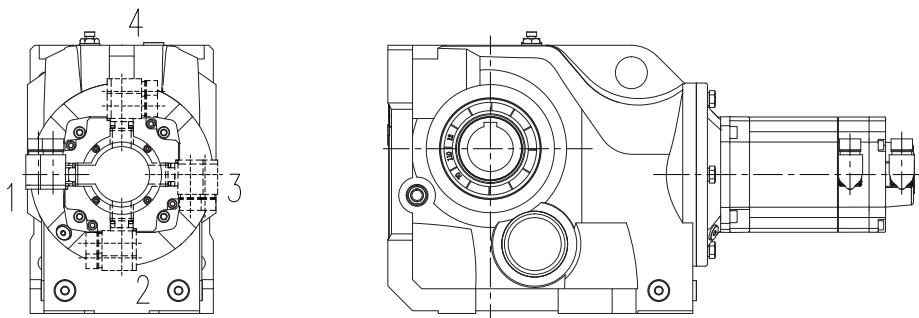




◆ 配AS输入法兰的齿轮箱型号示例: K308HA-C32-D100-AS160

整机标配颜色  RAL9006

### 3. 连接器方位



## 4.传动能力表和外形尺寸图

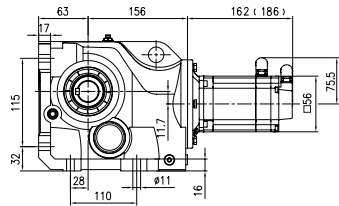
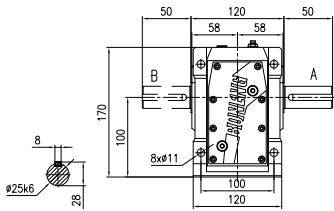
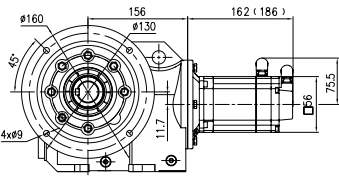
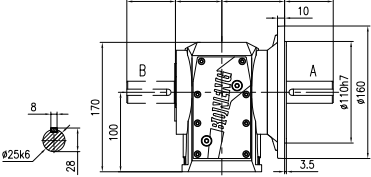
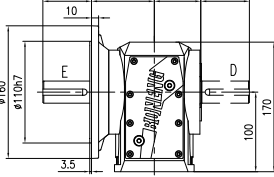
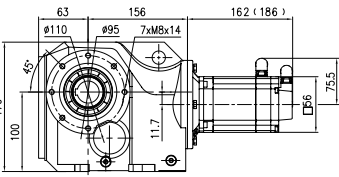
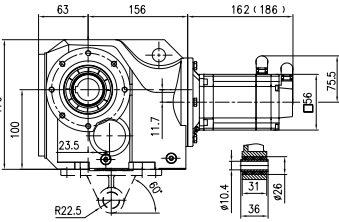
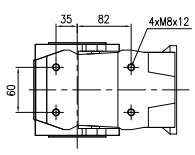
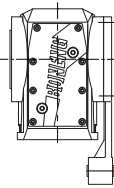
伺服马达: 0.28kW 0.9Nm 0.9A-3000r/min

齿轮箱实际 输出转速	齿轮箱实际 输出扭矩	齿轮箱公称 减速比代号	齿轮箱公称 减速比	齿轮箱精确 减速比	齿轮箱 齿数比	齿轮箱额定 输出扭矩	齿轮箱 转动惯量	齿轮箱 背隙	齿轮箱 服务系数
$n_{2N}$ (r/min)	T2 (N.m)	Code	$i_N$	$i_{ex}$	$i_z$	$T_{2N}$	$J \cdot 10^{-4}$ (kg. m <sup>2</sup> )	$\Phi$ (')	f
759	3.6	B40	4	3.95	585/148	150	2.9	20	41.67
673	4	B45	4.5	4.46	156/35	150	2.3	20	37.5
591	4.6	B50	5	5.08	325/64	150	1.9	20	32.61
523	5.2	B56	5.6	5.74	689/120	160	1.5	19	30.77
467	5.8	B63	6.3	6.42	7605/1184	180	1.7	17	31.03
414	6.5	B71	7.1	7.24	507/70	180	1.4	16	27.69
364	7.4	B80	8	8.25	65/8	180	1.1	16	24.32
322	8.4	B90	9	9.33	8957/960	180	0.92	16	21.43
283	9.5	C10	10	10.6	169/16	180	0.75	16	18.95
263	10	C11	11.2	11.4	91/8	180	0.68	16	18
236	11	C13	12.5	12.7	63765/5032	180	1.2	10	16.36
210	13	C14	14	14.3	8502/595	200	1	10	15.38
184	15	C16	16	16.3	35425/2176	200	0.86	10	13.33
163	17	C18	18	18.4	75101/4080	210	0.72	10	12.35
144	19	C20	20	20.8	1417/68	220	0.6	10	11.58
134	20	C22	22.4	22.4	763/34	225	0.55	10	11.25
117	23	C25	25	25.6	436/17	230	0.56	10	10
109	25	C28	28	27.6	6104/221	230	0.51	10	9.20
93.2	29	C32	31.5	32.2	161865/5032	230	0.9	9	7.93
82.6	33	C36	35.5	36.3	21582/595	230	0.77	9	6.97
72.6	37	C40	40	41.3	89925/2176	230	0.66	9	6.22
64.2	42	C45	45	46.7	63547/1360	230	0.56	9	5.48
56.7	48	C50	50	52.9	3597/68	230	0.47	9	4.79
52.6	51	C56	56	57	25179/442	230	0.44	9	4.51
45	60	C63	63	66.7	104313/1564	230	0.35	9	3.83
39.7	68	C71	71	75.6	17985/238	230	0.3	9	3.38
36	75	C80	80	83.3	226611/2720	230	0.28	9	3.07
32.9	82	C90	90	91.1	37169/408	230	0.24	9	2.8
30.1	90	D10	100	99.6	28776/289	230	0.21	9	2.56

注:启停次数≤60次/小时,服务系数f推荐1.5;启停次数≤120次/小时,服务系数f推荐1.75;启停次数>120次/小时,服务系数f推荐2以上;

伺服齿轮马达订货号	伺服驱动器订货号			线缆配置订货号		制动电阻订货号
	控制模块	功率模块	操作面板	伺服马达动力线	伺服马达信号线	
K303□□-B40-D□□□-MX028S1E30FS0	AX-CM55-□□-PE PA:PROFINET通讯 EA:EtherCAT通讯	AX-PM26-B3A75-□ N:不带滤波器 F:带滤波器	A1-OP25	A1-H□□-A15-□□□ 18:无制动器 16:带制动器 动力线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ 信号线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-A20-K-D75
K303□□-B45-D□□□-MX028S1E30FS0						
K303□□-B50-D□□□-MX028S1E30FS0						
K303□□-B56-D□□□-MX028S1E30FS0						
K303□□-B63-D□□□-MX028S1E30FS0						
K303□□-B71-D□□□-MX028S1E30FS0						
K303□□-B80-D□□□-MX028S1E30FS0						
K303□□-B90-D□□□-MX028S1E30FS0						
K303□□-C10-D□□□-MX028S1E30FS0						
K303□□-C11-D□□□-MX028S1E30FS0						
K303□□-C13-D□□□-MX028S1E30FS0						
K303□□-C14-D□□□-MX028S1E30FS0						
K303□□-C16-D□□□-MX028S1E30FS0						
K303□□-C18-D□□□-MX028S1E30FS0						
K303□□-C20-D□□□-MX028S1E30FS0						
K303□□-C22-D□□□-MX028S1E30FS0						
K303□□-C25-D□□□-MX028S1E30FS0						
K303□□-C28-D□□□-MX028S1E30FS0						
K303□□-C32-D□□□-MX028S1E30FS0						
K303□□-C36-D□□□-MX028S1E30FS0						
K303□□-C40-D□□□-MX028S1E30FS0						
K303□□-C45-D□□□-MX028S1E30FS0						
K303□□-C50-D□□□-MX028S1E30FS0						
K303□□-C56-D□□□-MX028S1E30FS0						
K303□□-C63-D□□□-MX028S1E30FS0						
K303□□-C71-D□□□-MX028S1E30FS0						
K303□□-C80-D□□□-MX028S1E30FS0						
K303□□-C90-D□□□-MX028S1E30FS0						
K303□□-D10-D□□□-MX028S1E30FS0						

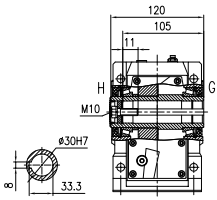


安装形式	K303-MX028S1E30FS0外形尺寸图 (mm)		
<p style="writing-mode: vertical-rl; text-orientation: upright;">底脚安装</p>	 <p style="text-align: center;">底脚安装H</p>	 <p style="text-align: center;">K303HA单向平键实心轴 K303HB单向平键实心轴 K303HC双向平键实心轴</p>	
<p style="writing-mode: vertical-rl; text-orientation: upright;">法兰安装</p>	 <p style="text-align: center;">法兰安装F</p>	 <p style="text-align: center;">K303FA单向平键实心轴 K303FB单向平键实心轴 K303FC双向平键实心轴</p>	 <p style="text-align: center;">K303FD单向平键实心轴 K303FE单向平键实心轴 K303FF双向平键实心轴</p>
<p style="writing-mode: vertical-rl; text-orientation: upright;">小法兰安装</p>	 <p style="text-align: center;">小法兰安装S</p>		
<p style="writing-mode: vertical-rl; text-orientation: upright;">轴装式安装</p>	 <p style="text-align: center;">带底面扭力臂附件安装T</p>	 <p style="text-align: center;">轴装式安装A</p>	 <p style="text-align: center;">带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

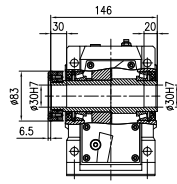
注: 括号内为带制动器的伺服马达长度

## K303-MX028S1E30FS0外形尺寸图 (mm)

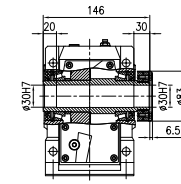
## 所配伺服驱动器外形尺寸图



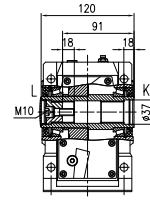
K303HG平键空心轴  
K303HH平键空心轴



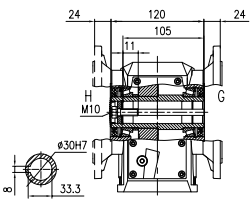
K303HI锁紧盘空心轴



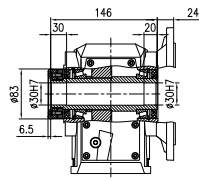
K303HJ锁紧盘空心轴



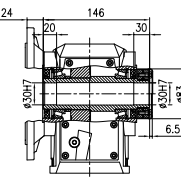
K303HK渐开线花键空心轴  
K303HL渐开线花键空心轴



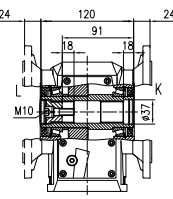
K303FG平键空心轴  
K303FH平键空心轴



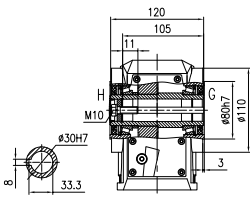
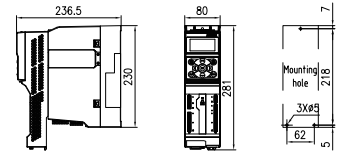
K303FI锁紧盘空心轴



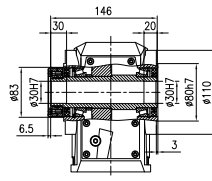
K303FJ锁紧盘空心轴



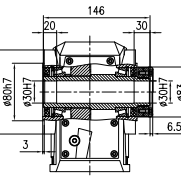
K303FK渐开线花键空心轴  
K303FL渐开线花键空心轴



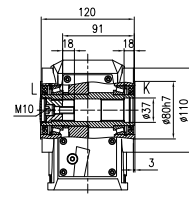
K303SG平键空心轴  
K303SH平键空心轴



K303SI锁紧盘空心轴

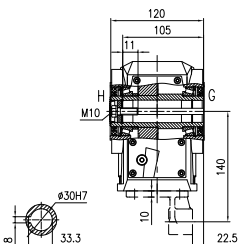


K303SJ锁紧盘空心轴

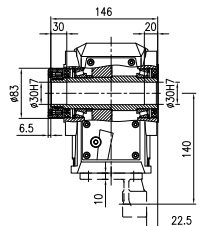


K303SK渐开线花键空心轴  
K303SL渐开线花键空心轴

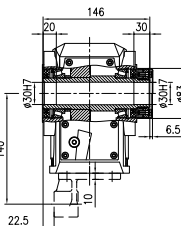
控制模块: AX-CM55-PA-PE(ProfiNet)  
或 AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3A75-N(不带滤波器)  
或 AX-PM26-B3A75-F(带滤波器)  
操作模块: A1-OP25



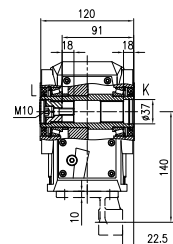
K303AG平键空心轴  
K303AH平键空心轴  
K303TG平键空心轴  
K303TH平键空心轴



K303AI锁紧盘空心轴  
K303TI锁紧盘空心轴



K303AJ锁紧盘空心轴  
K303TJ锁紧盘空心轴



K303AK渐开线花键空心轴  
K303AL渐开线花键空心轴  
K303TK渐开线花键空心轴  
K303TL渐开线花键空心轴

### 伺服马达: 0.47kW 1.5Nm 1.15A-3000r/min

齿轮箱实际 输出转速	齿轮箱实际 输出扭矩	齿轮箱公称 减速比代号	齿轮箱公称 减速比	齿轮箱精确 减速比	齿轮箱 齿数比	齿轮箱额定 输出扭矩	齿轮箱 转动惯量	齿轮箱 背隙	齿轮箱 服务系数
$n_{2N}$ (r/min)	T <sub>2</sub> (N·m)	Code	$i_N$	$i_{ex}$	$i_Z$	T <sub>2N</sub>	$J \cdot 10^{-4}$ (kg·m <sup>2</sup> )	Φ (°)	f
759	5.9	B40	4	3.95	585/148	150	2.9	20	25.42
673	6.7	B45	4.5	4.46	156/35	150	2.3	20	22.39
591	7.6	B50	5	5.08	325/64	150	1.9	20	19.74
523	8.6	B56	5.6	5.74	689/120	160	1.5	19	18.6
467	9.6	B63	6.3	6.42	7605/1184	180	1.7	17	18.75
414	11	B71	7.1	7.24	507/70	180	1.4	16	16.36
364	12	B80	8	8.25	65/8	180	1.1	16	15
322	14	B90	9	9.33	8957/960	180	0.92	16	12.86
283	16	C10	10	10.6	169/16	180	0.75	16	11.25
263	17	C11	11.2	11.4	91/8	180	0.68	16	10.59
236	19	C13	12.5	12.7	63765/5032	180	1.2	10	9.47
210	21	C14	14	14.3	8502/595	200	1	10	9.52
184	24	C16	16	16.3	35425/2176	200	0.86	10	8.33
163	28	C18	18	18.4	75101/4080	210	0.72	10	7.5
144	31	C20	20	20.8	1417/68	220	0.6	10	7.1
134	34	C22	22.4	22.4	763/34	225	0.55	10	6.62
117	38	C25	25	25.6	436/17	230	0.56	10	6.05
109	41	C28	28	27.6	6104/221	230	0.51	10	5.61
93.2	48	C32	31.5	32.2	161865/5032	230	0.9	9	4.79
82.6	54	C36	35.5	36.3	21582/595	230	0.77	9	4.26
72.6	62	C40	40	41.3	89925/2176	230	0.66	9	3.71
64.2	70	C45	45	46.7	63547/1360	230	0.56	9	3.29
56.7	79	C50	50	52.9	3597/68	230	0.47	9	2.91
52.6	86	C56	56	57	25179/442	230	0.44	9	2.67
45	100	C63	63	66.7	104313/1564	230	0.35	9	2.3
39.7	113	C71	71	75.6	17985/238	230	0.3	9	2.04
36	125	C80	80	83.3	226611/2720	230	0.28	9	1.84
32.9	137	C90	90	91.1	37169/408	230	0.24	9	1.68
30.1	149	D10	100	99.6	28776/289	230	0.21	9	1.54

注:启停次数≤60次/小时,服务系数f推荐1.5;启停次数≤120次/小时,服务系数f推荐1.75;启停次数>120次/小时,服务系数f推荐2以上;

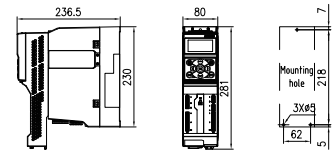
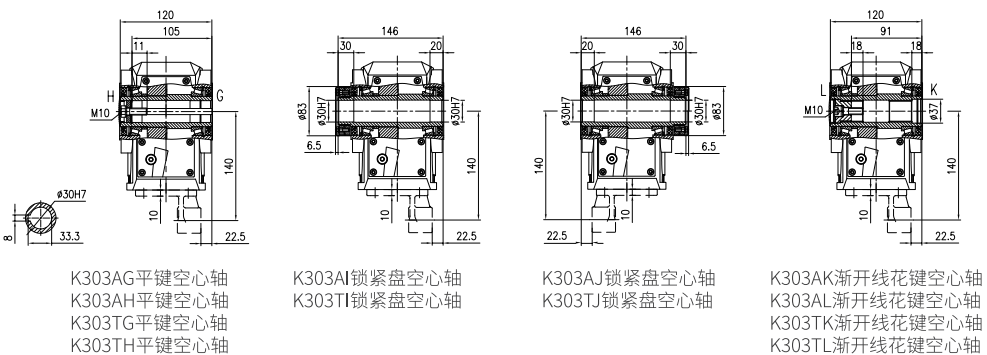
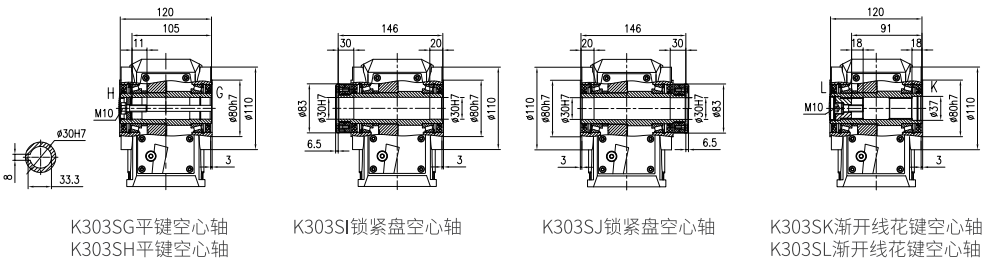
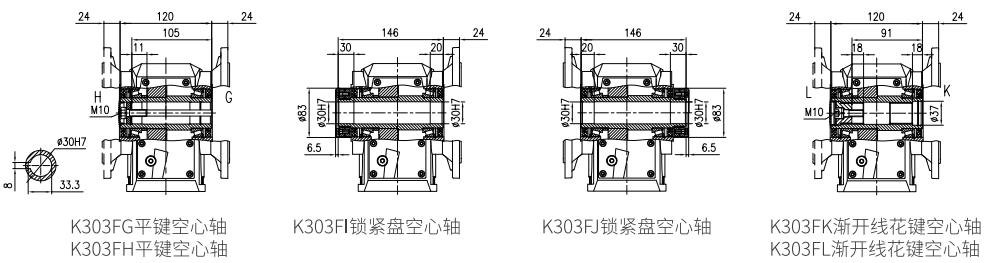
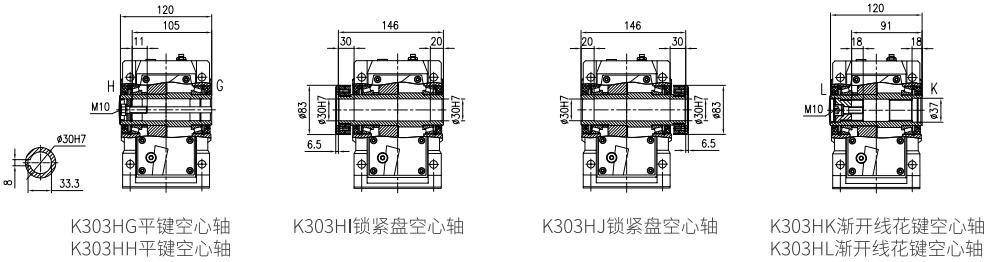
伺服齿轮马达订货号	伺服驱动器订货号			线缆配置订货号		制动电阻订货号
	控制模块	功率模块	操作面板	伺服马达动力线	伺服马达信号线	
K303□□-B40-D□□□-MX036S1E30FS0	AX-CM55-□□-PE PA:PROFINET通讯 EA:EtherCAT通讯	AX-PM26-B3A75-□ N:不带滤波器 F:带滤波器	A1-OP25	A1-H□□-A15-□□□ 18:无制动器 16:带制动器 动力线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ 信号线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-A20-K-D75
K303□□-B45-D□□□-MX036S1E30FS0						
K303□□-B50-D□□□-MX036S1E30FS0						
K303□□-B56-D□□□-MX036S1E30FS0						
K303□□-B63-D□□□-MX036S1E30FS0						
K303□□-B71-D□□□-MX036S1E30FS0						
K303□□-B80-D□□□-MX036S1E30FS0						
K303□□-B90-D□□□-MX036S1E30FS0						
K303□□-C10-D□□□-MX036S1E30FS0						
K303□□-C11-D□□□-MX036S1E30FS0						
K303□□-C13-D□□□-MX036S1E30FS0						
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K303□□-C18-D□□□-MX036S1E30FS0						
K303□□-C20-D□□□-MX036S1E30FS0						
K303□□-C22-D□□□-MX036S1E30FS0						
K303□□-C25-D□□□-MX036S1E30FS0						
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K303□□-C56-D□□□-MX036S1E30FS0						
K303□□-C63-D□□□-MX036S1E30FS0						
K303□□-C71-D□□□-MX036S1E30FS0						
K303□□-C80-D□□□-MX036S1E30FS0						
K303□□-C90-D□□□-MX036S1E30FS0						
K303□□-D10-D□□□-MX036S1E30FS0						

安装形式	K303-MX036S1E30FS0外形尺寸图(mm)		
<p style="writing-mode: vertical-rl;">底脚安装</p>	<p style="text-align: center;">底脚安装H</p>	<p style="text-align: center;">K303HA单向平键实心轴 K303HB单向平键实心轴 K303HC双向平键实心轴</p>	
<p style="writing-mode: vertical-rl;">法兰安装</p>	<p style="text-align: center;">法兰安装F</p>	<p style="text-align: center;">K303FA单向平键实心轴 K303FB单向平键实心轴 K303FC双向平键实心轴</p> <p style="text-align: center;">K303FD单向平键实心轴 K303FE单向平键实心轴 K303FF双向平键实心轴</p>	
<p style="writing-mode: vertical-rl;">小法兰安装</p>	<p style="text-align: center;">小法兰安装S</p>		
<p style="writing-mode: vertical-rl;">轴装式安装</p>	<p style="text-align: center;">带底面扭力臂附件安装T</p>	<p style="text-align: center;">轴装式安装A</p> <p style="text-align: center;">带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

注:括号内为带制动器的伺服马达长度

## K303-MX036S1E30FS0外形尺寸图(mm)

## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3A75-N(不带滤波器)  
或AX-PM26-B3A75-F(带滤波器)  
操作模块: A1-OP25

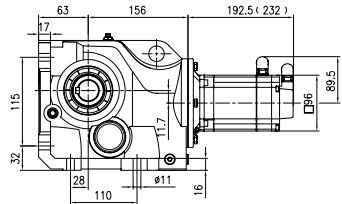
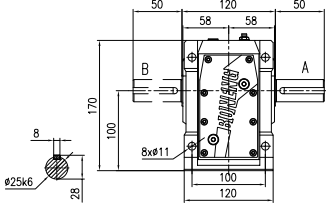
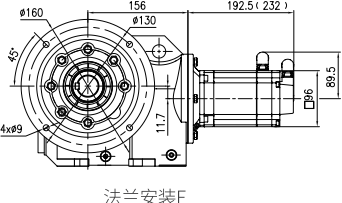
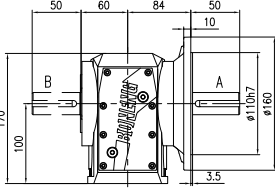
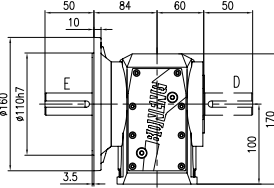
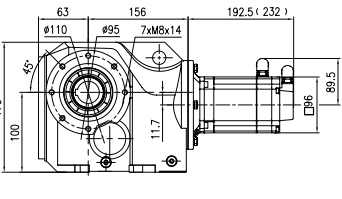
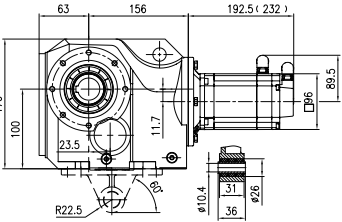
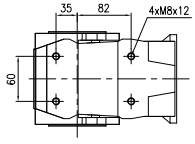
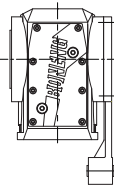
### 伺服马达：1kW 3.2Nm 2.2A-3000r/min

齿轮箱实际输出转速	齿轮箱实际输出扭矩	齿轮箱公称减速比代号	齿轮箱公称减速比	齿轮箱精确减速比	齿轮箱齿数比	齿轮箱额定输出扭矩	齿轮箱转动惯量	齿轮箱背隙	齿轮箱服务系数
$n_{2N}$ (r/min)	T2 (N.m)	Code	$i_N$	$i_{ex}$	$i_z$	$T_{2N}$	$J \cdot 10^{-4}$ (kg.m <sup>2</sup> )	$\Phi$ (')	f
759	13	B40	4	3.95	585/148	150	2.9	20	11.54
673	14	B45	4.5	4.46	156/35	150	2.3	20	10.71
591	16	B50	5	5.08	325/64	150	1.9	20	9.38
523	18	B56	5.6	5.74	689/120	160	1.5	19	8.89
467	21	B63	6.3	6.42	7605/1184	180	1.7	17	8.57
414	23	B71	7.1	7.24	507/70	180	1.4	16	7.83
364	26	B80	8	8.25	65/8	180	1.1	16	6.92
322	30	B90	9	9.33	8957/960	180	0.92	16	6
283	34	C10	10	10.6	169/16	180	0.75	16	5.29
263	36	C11	11.2	11.4	91/8	180	0.68	16	5
236	41	C13	12.5	12.7	63765/5032	180	1.2	10	4.39
210	46	C14	14	14.3	8502/595	200	1	10	4.35
184	52	C16	16	16.3	35425/2176	200	0.86	10	3.85
163	59	C18	18	18.4	75101/4080	210	0.72	10	3.56
144	67	C20	20	20.8	1417/68	220	0.6	10	3.28
134	72	C22	22.4	22.4	763/34	225	0.55	10	3.13
117	82	C25	25	25.6	436/17	230	0.56	10	2.80
109	88	C28	28	27.6	6104/221	230	0.51	10	2.61
93.2	103	C32	31.5	32.2	161865/5032	230	0.9	9	2.23
82.6	116	C36	35.5	36.3	21582/595	230	0.77	9	1.98
72.6	132	C40	40	41.3	89925/2176	230	0.66	9	1.74
64.2	149	C45	45	46.7	63547/1360	230	0.56	9	1.54
71.8	134	C40	40	41.8	9240/221	450	1.4	8	3.36
63.6	151	C45	45	47.2	29700/629	450	1.2	8	2.98
57.3	168	C50	50	52.4	891/17	450	1.1	8	2.68
49.9	192	C56	56	60.1	16335/272	450	0.95	8	2.34
45.5	211	C63	63	66	66/1	450	0.81	8	2.13
40.3	238	C71	71	74.4	1265/17	450	0.69	8	1.89
37.7	254	C80	80	79.5	35145/442	450	0.64	8	1.77
32.5	296	C90	90	92.4	36135/391	450	0.52	8	1.52
41	234	C71	71	73.2	228855/3128	520	0.54	8	2.22
36.5	263	C80	80	82.3	78375/952	520	0.46	8	1.98
33.4	288	C90	90	89.9	24453/272	520	0.42	8	1.81
30.4	316	D10	100	98.6	80465/816	520	0.36	8	1.65
28	343	D11	112	107.1	247665/2312	520	0.32	8	1.52

注:启停次数 $\leq 60$ 次/小时,服务系数f推荐1.5;启停次数 $\leq 120$ 次/小时,服务系数f推荐1.75;启停次数 $> 120$ 次/小时,服务系数f推荐2以上;

伺服齿轮马达订货号	伺服驱动器订货号			线缆配置订货号		制动电阻订货号
	控制模块	功率模块	操作面板	伺服马达动力线	伺服马达信号线	
K303□□-B40-D□□□-MX048S1E30FS0	AX-CM55-□□-PE PA: PROFINET通讯 EA: EtherCAT通讯	AX-PM26-B3B15-□ N: 不带滤波器 F: 带滤波器	A1-OP25	A1-H□□-A15-□□□ 18: 无制动器 16: 带制动器 动力线长度B30: 3m B50: 5m B70: 7m C10: 10m C15: 15m C20: 20m	A1-H17-A10-□□□ 信号线长度B30: 3m B50: 5m B70: 7m C10: 10m C15: 15m C20: 20m	A1-H02-A40-K-D39
K303□□-B45-D□□□-MX048S1E30FS0						
K303□□-B50-D□□□-MX048S1E30FS0						
K303□□-B56-D□□□-MX048S1E30FS0						
K303□□-B63-D□□□-MX048S1E30FS0						
K303□□-B71-D□□□-MX048S1E30FS0						
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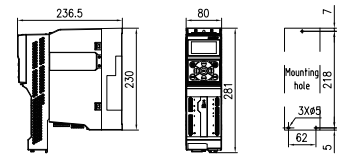
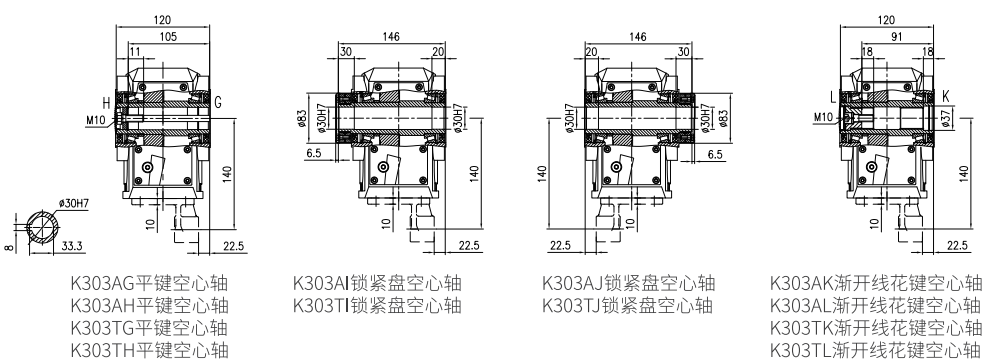
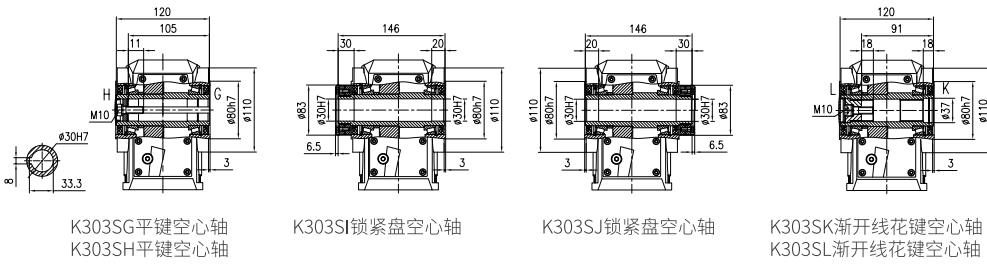
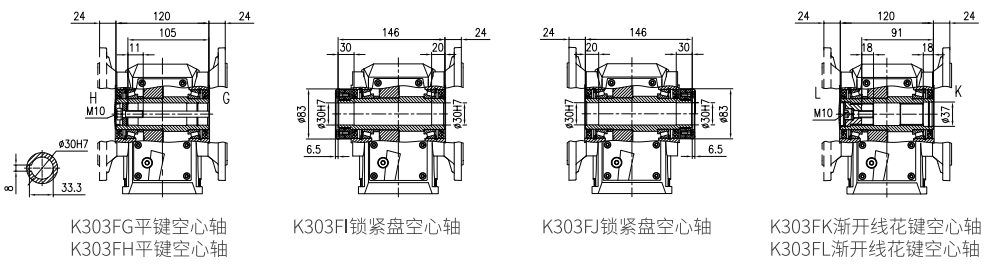
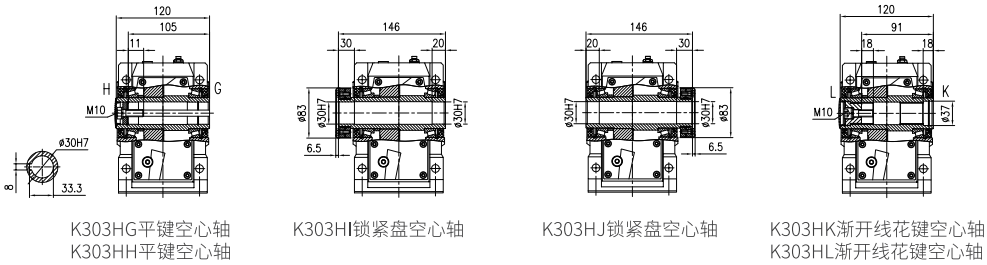


安装形式	K303-MX048S1E30FS0外形尺寸图 (mm)		
底脚安装	 <p>底脚安装H</p>	 <p>K303HA单向平键实心轴 K303HB单向平键实心轴 K303HC双向平键实心轴</p>	
法兰安装	 <p>法兰安装F</p>	 <p>K303FA单向平键实心轴 K303FB单向平键实心轴 K303FC双向平键实心轴</p>	 <p>K303FD单向平键实心轴 K303FE单向平键实心轴 K303FF双向平键实心轴</p>
小法兰安装	 <p>小法兰安装S</p>		
带扭力臂附件安装 轴装式安装	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>	 <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

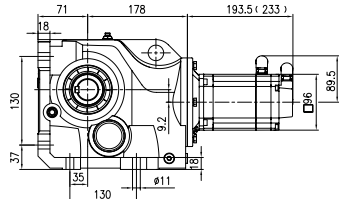
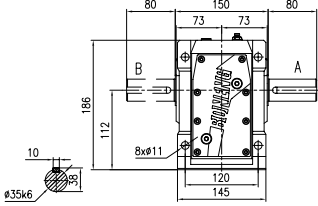
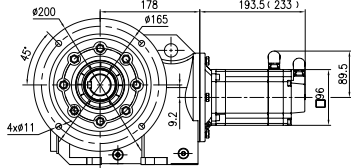
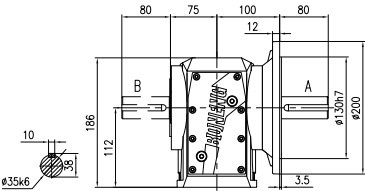
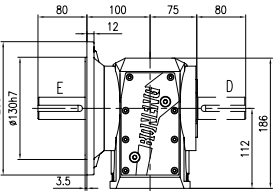
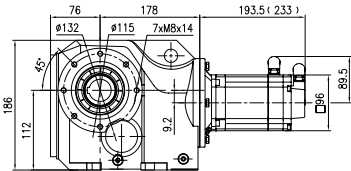
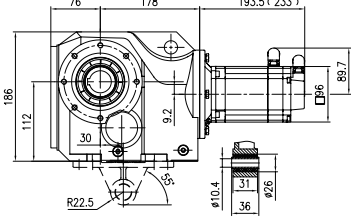
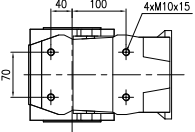
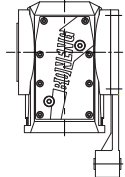
注: 括号内为带制动器的伺服马达长度

## K303-MX048S1E30FS0外形尺寸图(mm)

## 所配伺服驱动器外形尺寸图



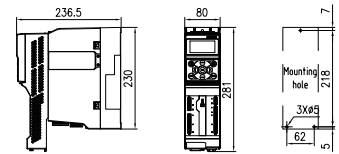
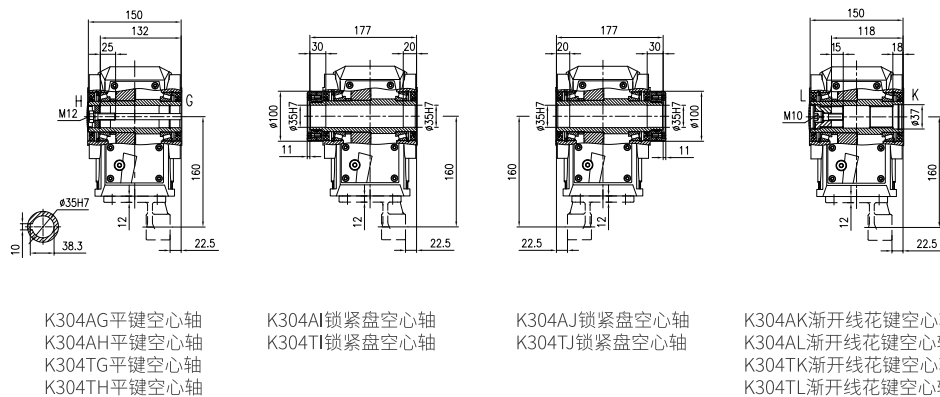
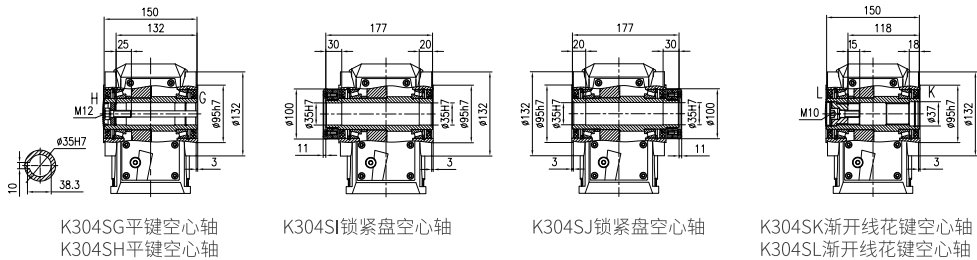
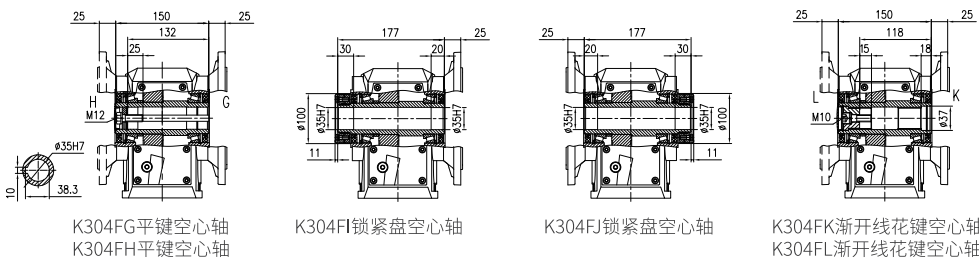
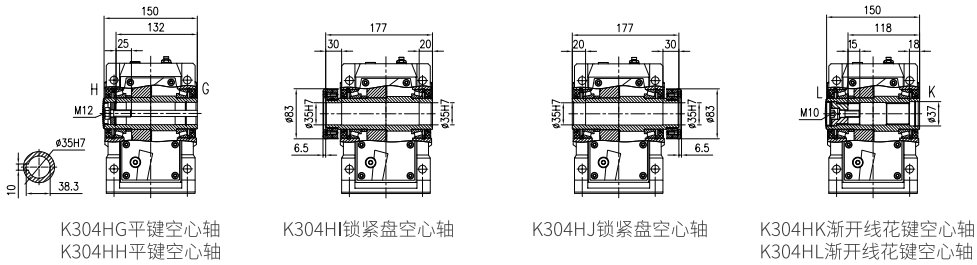
控制模块: AX-CM55-PA-PE(ProfiNet)  
或 AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B15-N(不带滤波器)  
或 AX-PM26-B3B15-F(带滤波器)  
操作模块: A1-OP25

安装形式	K304-MX048S1E30FS0外形尺寸图 (mm)		
底脚安装	 <p>底脚安装H</p>	 <p>K304HA单向平键实心轴 K304HB单向平键实心轴 K304HC双向平键实心轴</p>	
法兰安装	 <p>法兰安装F</p>	 <p>K304FA单向平键实心轴 K304FB单向平键实心轴 K304FC双向平键实心轴</p>  <p>K304FD单向平键实心轴 K304FE单向平键实心轴 K304FF双向平键实心轴</p>	
小法兰安装	 <p>小法兰安装S</p>		
带扭力臂附件安装 轴装式安装	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

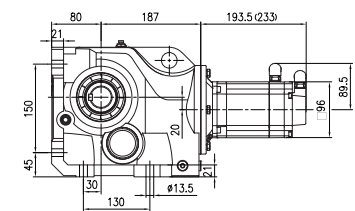
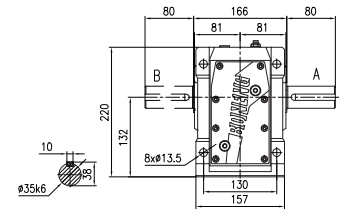
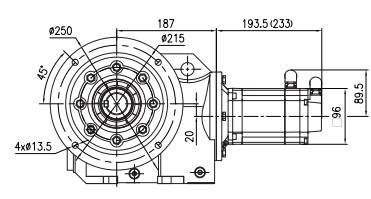
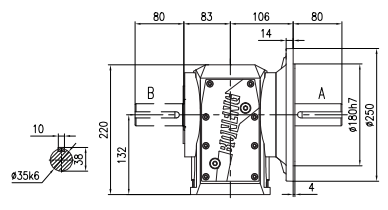
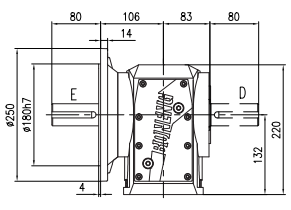
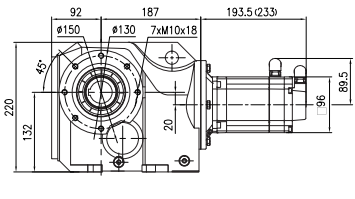
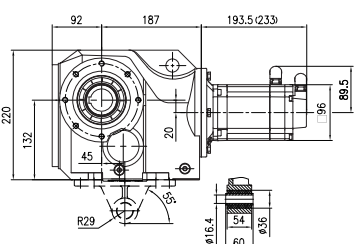
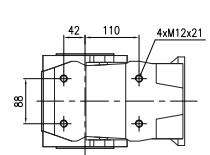
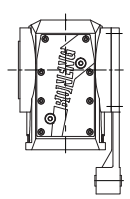
注: 括号内为带制动器的伺服马达长度

## K304-MX048S1E30FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



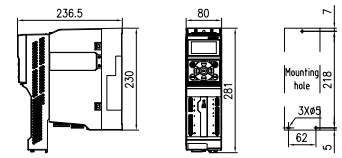
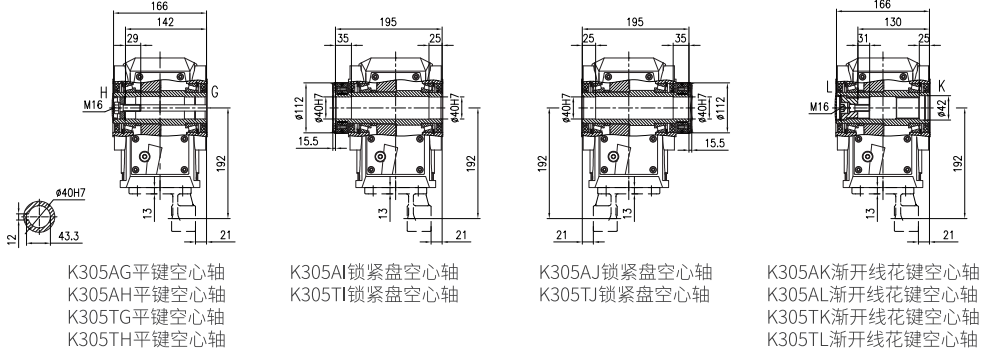
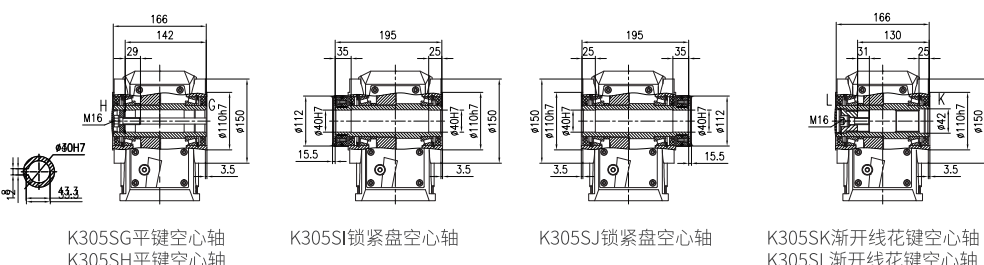
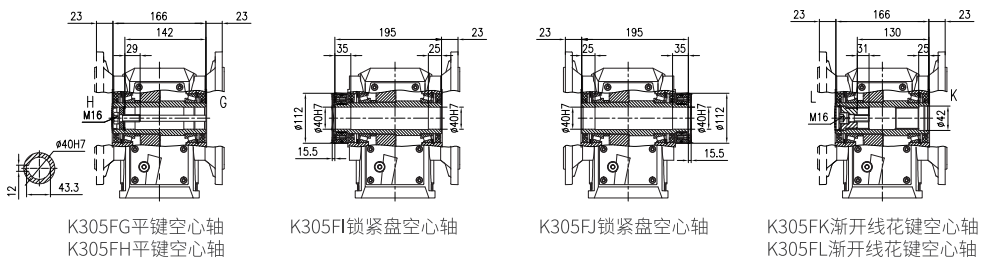
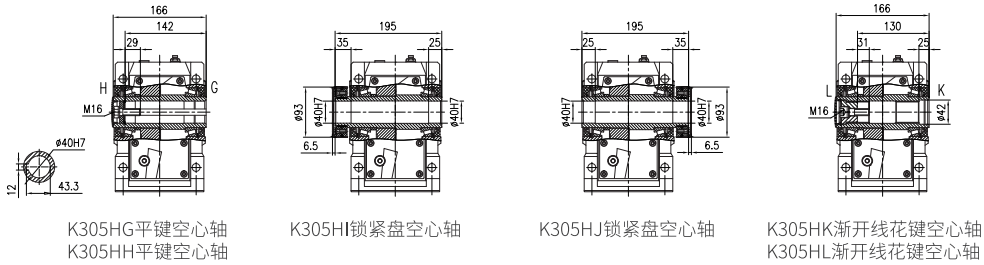
控制模块: AX-CM55-PA-PE(ProfiNet)  
 或 AX-CM55-EA-PE(EtherCAT)  
 功率模块: AX-PM26-B3B15-N(不带滤波器)  
 或 AX-PM26-B3B15-F(带滤波器)  
 操作模块: A1-OP25

安装形式	K305-MX048S1E30FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K305HA单向平键实心轴 K305HB单向平键实心轴 K305HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K305FA单向平键实心轴 K305FB单向平键实心轴 K305FC双向平键实心轴</p>	 <p>K305FD单向平键实心轴 K305FE单向平键实心轴 K305FF双向平键实心轴</p>
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>	 <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

注: 括号内为带制动器的伺服马达长度

## K305-MX048S1E30FS0外形尺寸图(mm)

## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
 或 AX-CM55-EA-PE(EtherCAT)  
 功率模块: AX-PM26-B3B15-N(不带滤波器)  
 或 AX-PM26-B3B15-F(带滤波器)  
 操作模块: A1-OP25

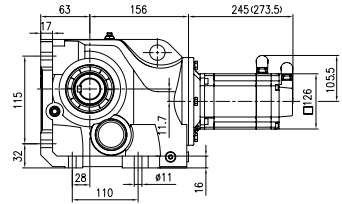
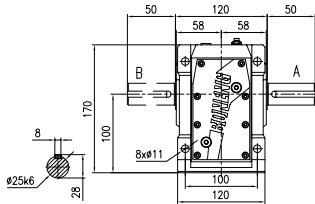
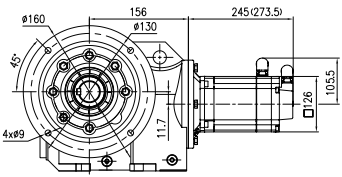
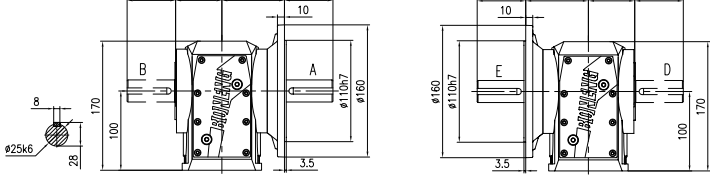
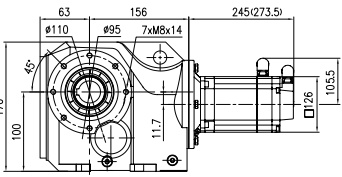
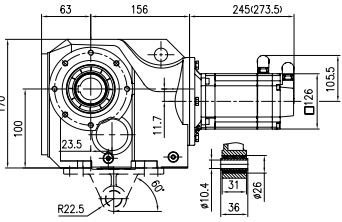
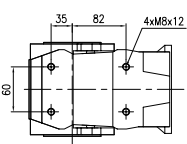
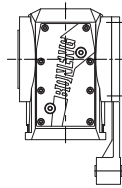
### 伺服马达：2.05kW 9.8Nm 4.6A-2000r/min

齿轮箱实际 输出转速	齿轮箱实际 输出扭矩	齿轮箱公称 减速比代号	齿轮箱公称 减速比	齿轮箱精确 减速比	齿轮箱 齿数比	齿轮箱额定 输出扭矩	齿轮箱 转动惯量	齿轮箱 背隙	齿轮箱 服务系数
$n_{2N}$ (r/min)	T2 (N.m)	Code	$i_N$	$i_{ex}$	$i_z$	$T_{2N}$	$J \cdot 10^{-4}$ (kg.m <sup>2</sup> )	$\Phi$ (°)	f
506	39	B40	4	3.95	585/148	150	3	20	3.85
448	44	B45	4.5	4.46	156/35	150	2.4	20	3.41
394	50	B50	5	5.08	325/64	150	1.9	20	3
348	56	B56	5.6	5.74	689/120	160	1.6	19	2.86
312	63	B63	6.3	6.42	7605/1184	180	1.8	17	2.86
276	71	B71	7.1	7.24	507/70	180	1.5	16	2.54
242	81	B80	8	8.25	65/8	180	1.2	16	2.22
214	91	B90	9	9.33	8957/960	180	0.98	16	1.98
189	104	C10	10	10.6	169/16	180	0.79	16	1.73
175	112	C11	11.2	11.4	91/8	180	0.71	16	1.61
157	124	C13	12.5	12.7	63765/5032	180	1.4	10	1.45
200	98	C10	10	9.98	639/64	340	1.7	16	3.47
182	108	C11	11.2	11	1207/110	360	1.5	16	3.33
161	122	C13	12.5	12.4	1633/132	380	1.2	16	3.11
148	132	C14	14	13.5	9900/731	400	3	10	3.03
132	149	C16	16	15.2	3360/221	420	2.5	10	2.82
116	169	C18	18	17.2	10800/629	420	2.1	10	2.49
105	187	C20	20	19.1	324/17	450	1.7	10	2.41
91.7	214	C22	22.4	21.8	1485/68	450	1.4	10	2.1
83.3	235	C25	25	24	24/1	450	1.2	10	1.91
73.8	266	C28	28	27.1	460/17	450	1	9	1.69
63.5	309	C32	31.5	31.5	19800/629	450	2.0	8	1.46
67.8	289	C28	28	29.5	172425/5848	680	2.1	8	2.35
60.4	324	C32	31.5	33.1	7315/221	680	1.7	8	2.1
53.5	367	C36	35.5	37.4	47025/1258	680	1.5	8	1.85
48.2	407	C40	40	41.5	5643/136	680	1.2	8	1.67
42.1	466	C45	45	47.5	103455/2176	680	1.1	8	1.46
55.9	351	C36	35.5	35.8	180147/5032	950	3.1	8	2.71
52.4	374	C40	40	38.2	62315/1632	950	2.9	8	2.54
44	446	C45	45	45.5	80443/1768	950	2.2	8	2.13
39.4	497	C50	50	50.7	254925/5032	950	1.9	8	1.91
35.9	546	C56	56	55.7	132561/2380	950	1.6	8	1.74
31.6	620	C63	63	63.3	275319/4352	950	1.4	8	1.53
35.4	554	C56	56	56.5	7285/129	1750	4.9	7	3.16
31.8	616	C63	63	62.9	147157/2340	1750	4.3	7	2.84
29	675	C71	71	68.9	10199/148	1750	3.8	7	2.59
26.7	734	C80	80	74.9	13113/175	1750	3.3	7	2.38
23.8	825	C90	90	84.2	53909/640	1750	3	7	2.12
21.7	905	D10	100	92.3	27683/300	1750	2.6	7	1.93
18.5	1061	D11	112	108.3	42253/390	1750	2	7	1.65

注:启停次数≤60次/小时,服务系数f推荐1.5;启停次数≤120次/小时,服务系数f推荐1.75;启停次数>120次/小时,服务系数f推荐2以上;

伺服齿轮马达订货号	伺服驱动器订货号			线缆配置订货号		制动电阻订货号
	控制模块	功率模块	操作面板	伺服马达动力线	伺服马达信号线	
K303□□-B40-D□□□-MX063M1E20FS0	AX-CM55-□□-PE PA: PROFINET通讯 EA: EtherCAT通讯	AX-PM26-B3B40-□ N: 不带滤波器 F: 带滤波器	A1-OP25	A1-H□□-A15-□□□ 18: 无制动器 16: 带制动器 动力线长度B30: 3m B50: 5m B70: 7m C10: 10m C15: 15m C20: 20m	A1-H17-A10-□□□ 信号线长度B30: 3m B50: 5m B70: 7m C10: 10m C15: 15m C20: 20m	A1-H02-B12-K-D13
K303□□-B45-D□□□-MX063M1E20FS0						
K303□□-B50-D□□□-MX063M1E20FS0						
K303□□-B56-D□□□-MX063M1E20FS0						
K303□□-B63-D□□□-MX063M1E20FS0						
K303□□-B71-D□□□-MX063M1E20FS0						
K303□□-B80-D□□□-MX063M1E20FS0						
K303□□-B90-D□□□-MX063M1E20FS0						
K303□□-C10-D□□□-MX063M1E20FS0						
K303□□-C11-D□□□-MX063M1E20FS0						
K303□□-C13-D□□□-MX063M1E20FS0						
K304□□-C10-D□□□-MX063M1E20FS0						
K304□□-C11-D□□□-MX063M1E20FS0						
K304□□-C13-D□□□-MX063M1E20FS0						
K304□□-C14-D□□□-MX063M1E20FS0						
K304□□-C16-D□□□-MX063M1E20FS0						
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K306□□-C63-D□□□-MX063M1E20FS0						
K307□□-C56-D□□□-MX063M1E20FS0						
K307□□-C63-D□□□-MX063M1E20FS0						
K307□□-C71-D□□□-MX063M1E20FS0						
K307□□-C80-D□□□-MX063M1E20FS0						
K307□□-C90-D□□□-MX063M1E20FS0						
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K307□□-D11-D□□□-MX063M1E20FS0						

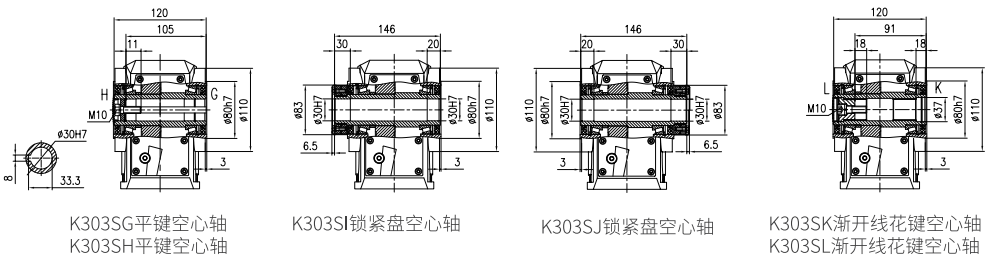
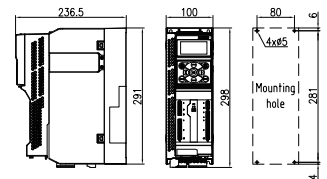
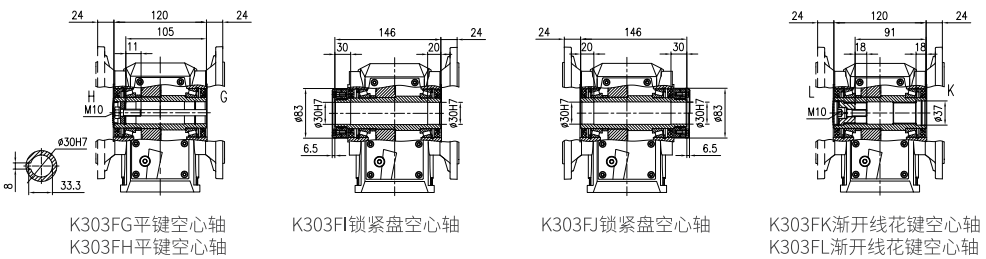
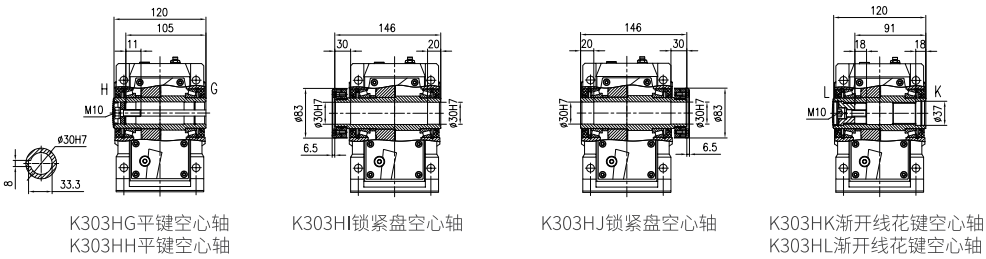


安装形式	K303-MX063M1E20FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K303HA单向平键实心轴 K303HB单向平键实心轴 K303HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K303FA单向平键实心轴 K303FB单向平键实心轴 K303FC双向平键实心轴</p> <p>K303FD单向平键实心轴 K303FE单向平键实心轴 K303FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

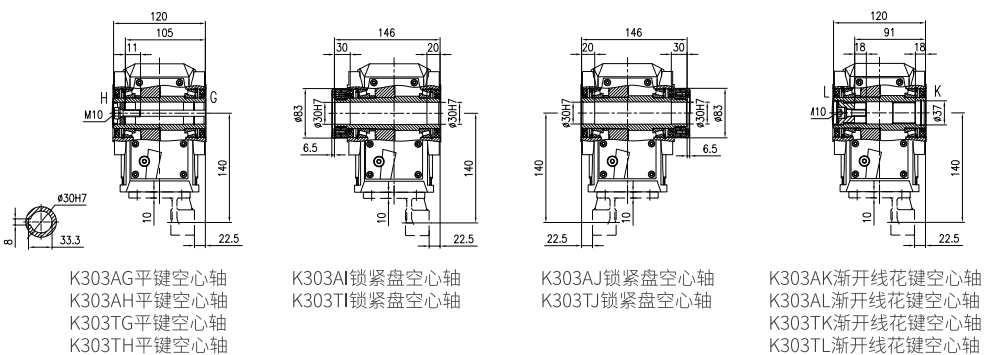
注:括号内为带制动器的伺服马达长度

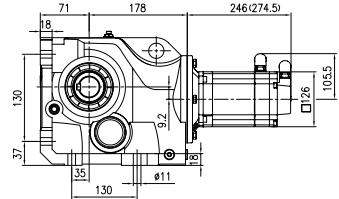
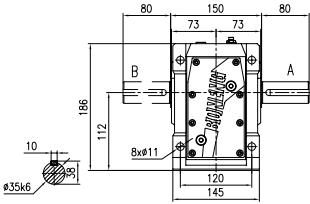
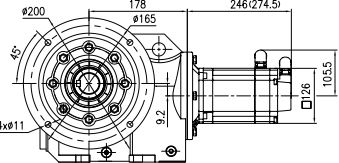
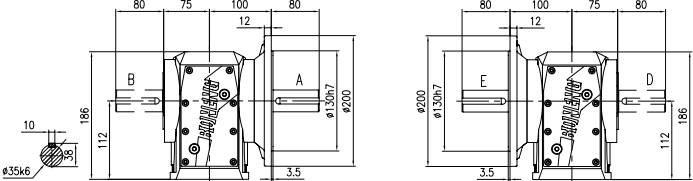
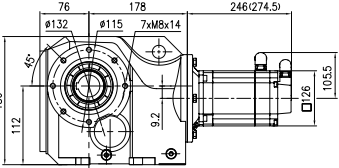
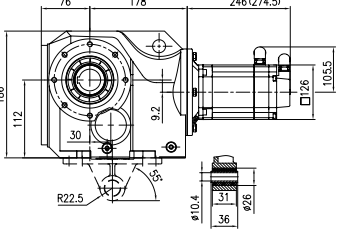
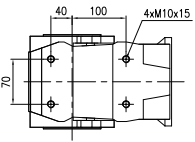
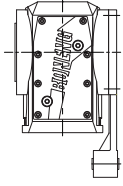
## K303-MX063M1E20FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
或 AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B40-N(不带滤波器)  
或 AX-PM26-B3B40-F(带滤波器)  
操作模块: A1-OP25

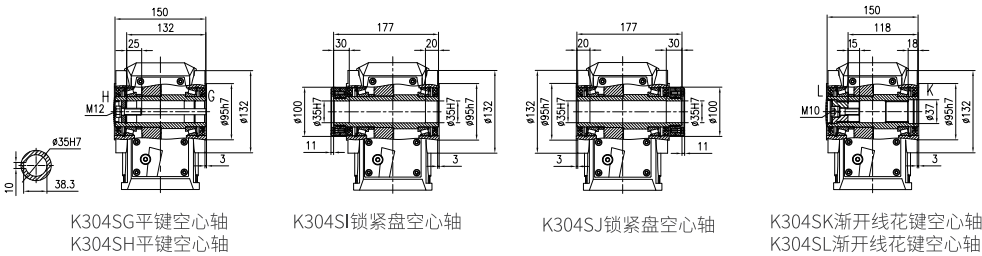
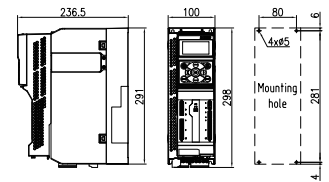
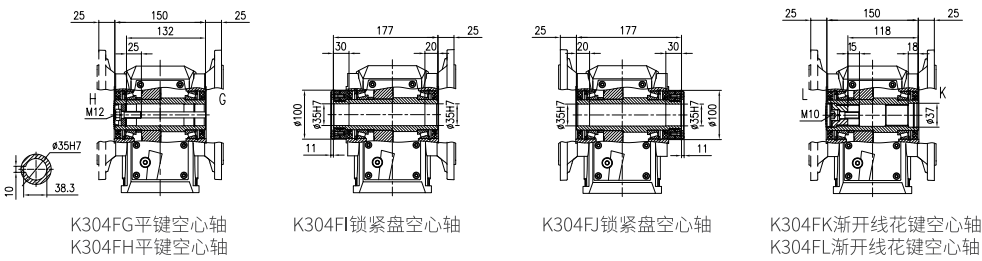
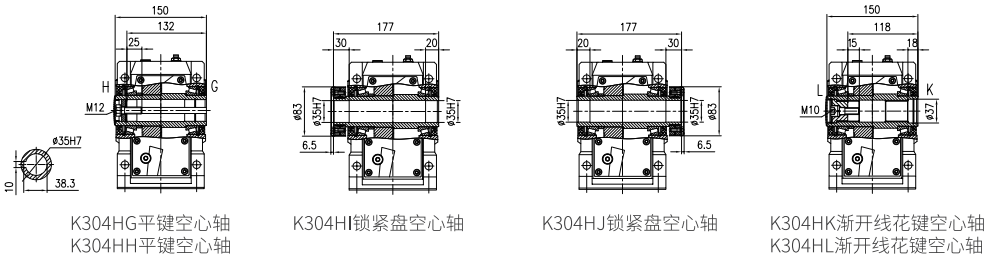


安装形式	K304-MX063M1E20FS0外形尺寸图(mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K304HA单向平键实心轴 K304HB单向平键实心轴 K304HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K304FA单向平键实心轴 K304FB单向平键实心轴 K304FC双向平键实心轴</p> <p>K304FD单向平键实心轴 K304FE单向平键实心轴 K304FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

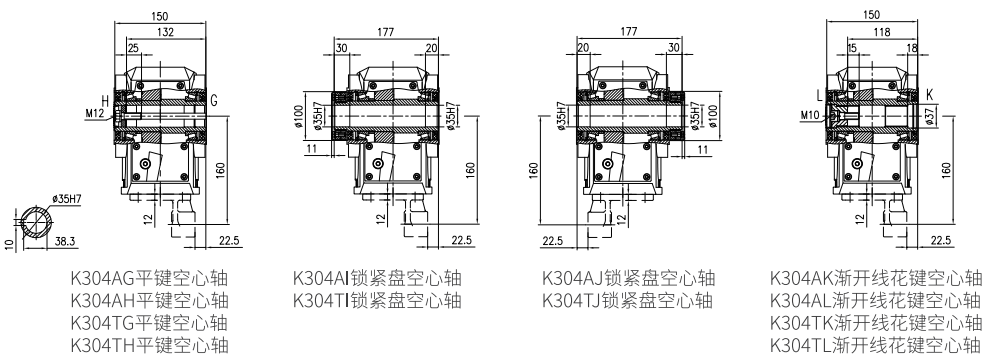
注:括号内为带制动器的伺服马达长度

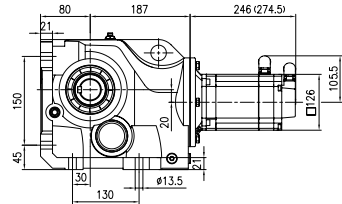
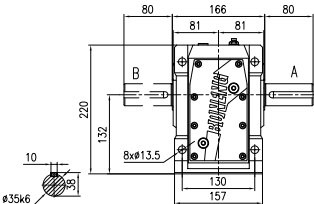
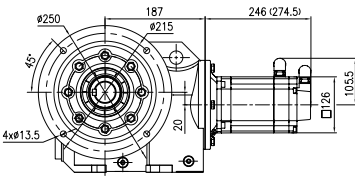
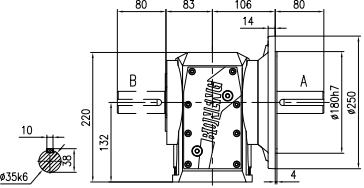
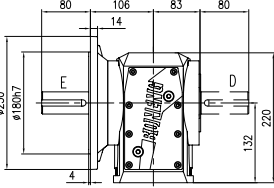
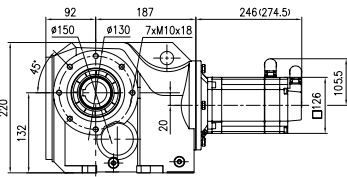
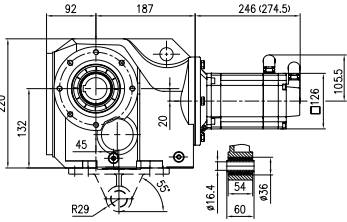
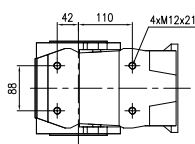
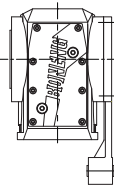
## K304-MX063M1E20FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B40-N(不带滤波器)  
或AX-PM26-B3B40-F(带滤波器)  
操作模块: A1-OP25

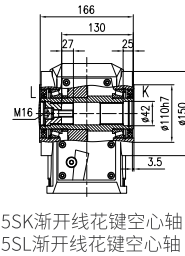
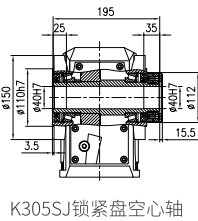
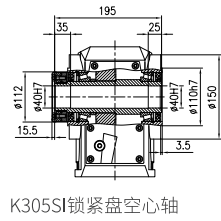
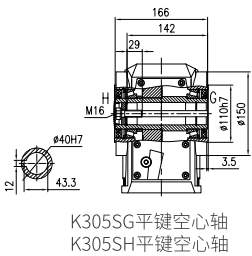
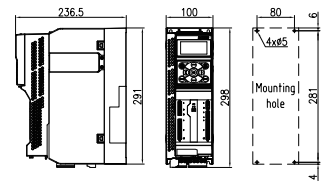
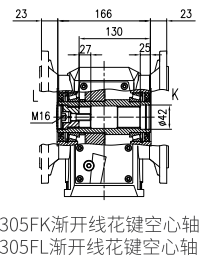
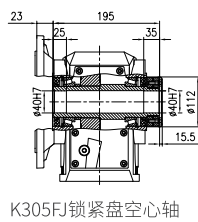
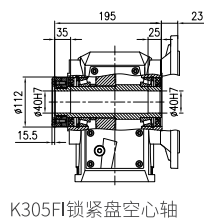
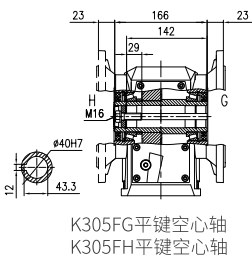
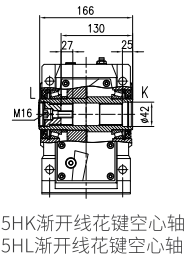
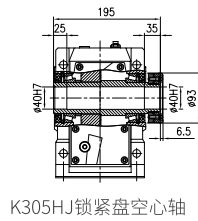
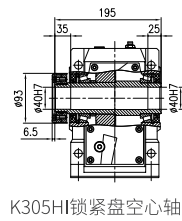
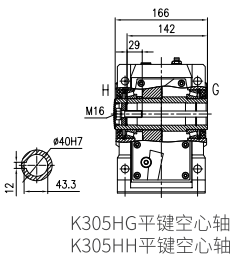


安装形式	K305-MX063M1E20FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K305HA单向平键实心轴 K305HB单向平键实心轴 K305HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K305FA单向平键实心轴 K305FB单向平键实心轴 K305FC双向平键实心轴</p>  <p>K305FD单向平键实心轴 K305FE单向平键实心轴 K305FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

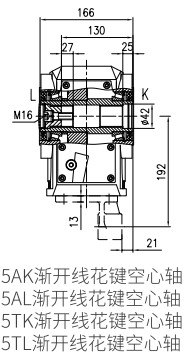
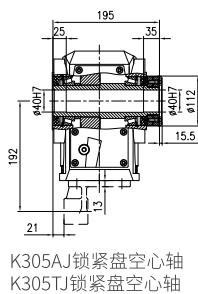
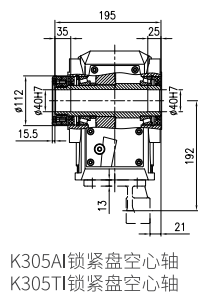
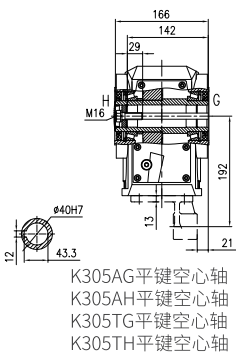
注: 括号内为带制动器的伺服马达长度

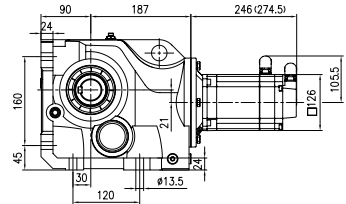
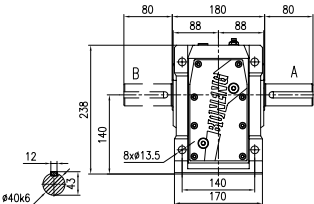
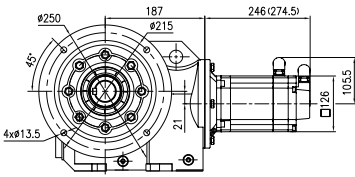
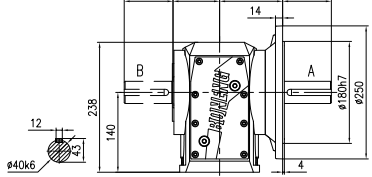
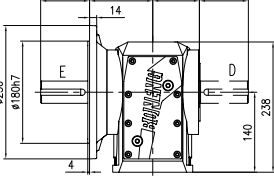
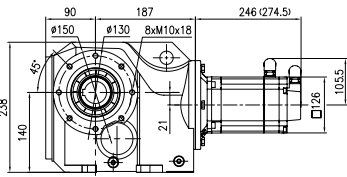
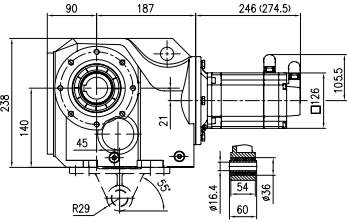
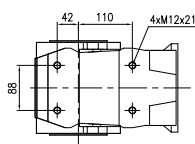
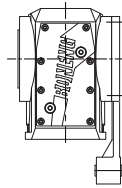
## K305-MX063M1E20FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B40-N(不带滤波器)  
或AX-PM26-B3B40-F(带滤波器)  
操作模块: A1-OP25

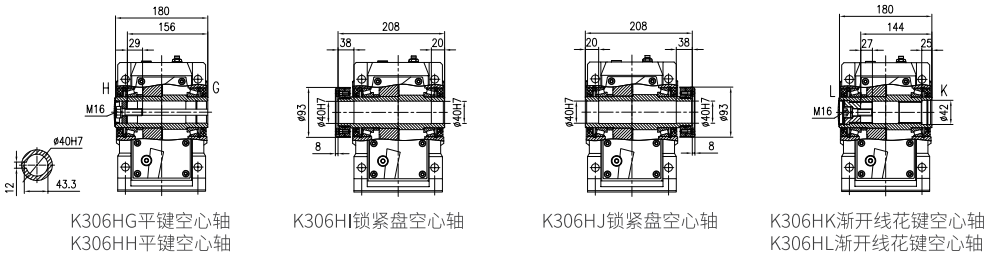


安装形式	K306-MX063M1E20FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K306HA单向平键实心轴 K306HB单向平键实心轴 K306HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K306FA单向平键实心轴 K306FB单向平键实心轴 K306FC双向平键实心轴</p>	 <p>K306FD单向平键实心轴 K306FE单向平键实心轴 K306FF双向平键实心轴</p>
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>	 <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

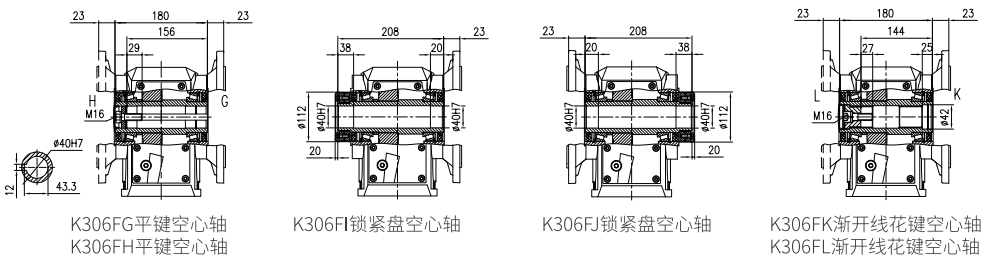
注:括号内为带制动器的伺服马达长度

## K306-MX063M1E20FS0外形尺寸图 (mm)

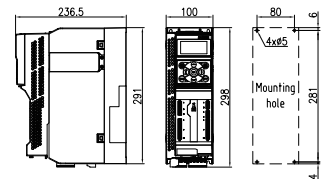
## 所配伺服驱动器外形尺寸图



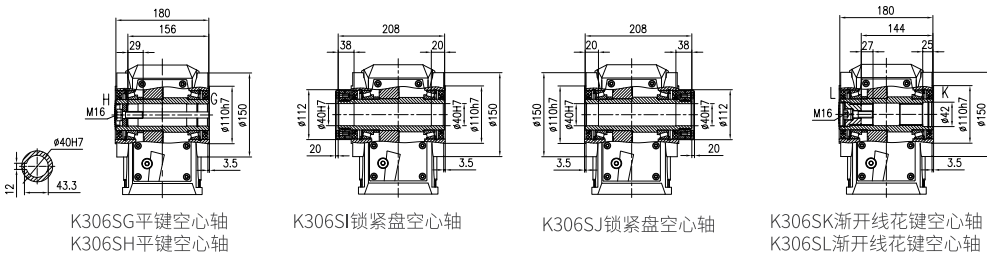
K306HG平键空心轴  
K306HH平键空心轴  
K306HI锁紧盘空心轴  
K306HJ锁紧盘空心轴  
K306HK渐开线花键空心轴  
K306HL渐开线花键空心轴



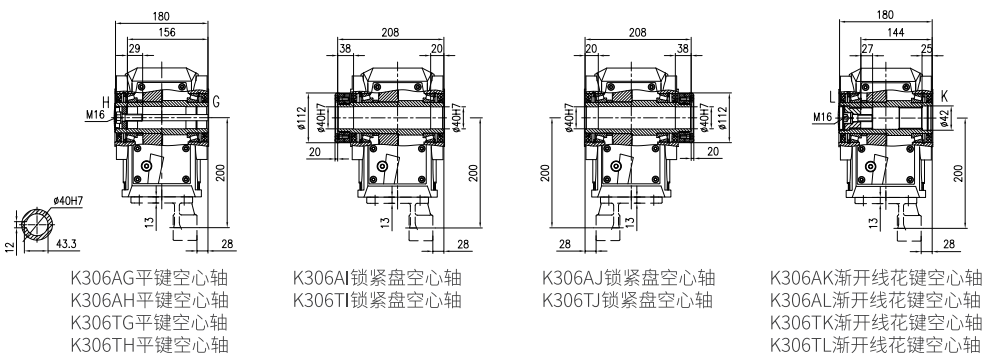
K306FG平键空心轴  
K306FH平键空心轴  
K306FI锁紧盘空心轴  
K306FJ锁紧盘空心轴  
K306FK渐开线花键空心轴  
K306FL渐开线花键空心轴



控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B40-N(不带滤波器)  
或AX-PM26-B3B40-F(带滤波器)  
操作模块: A1-OP25

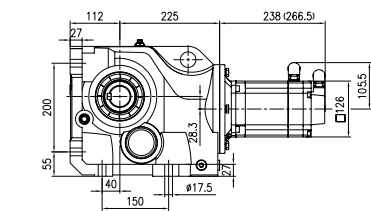
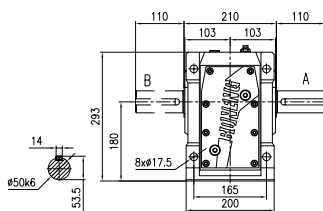
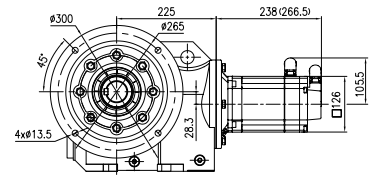
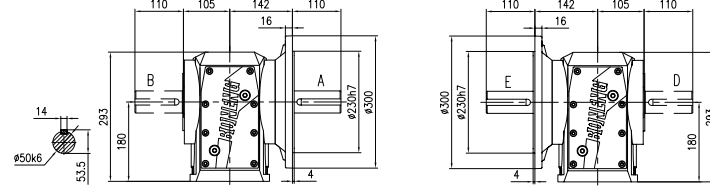
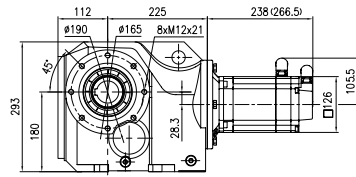
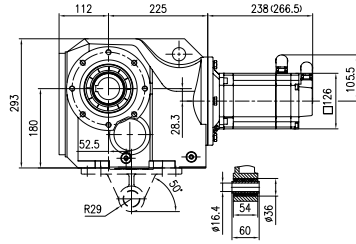
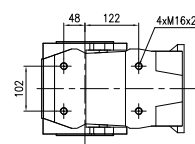
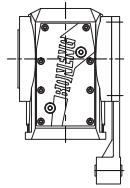


K306SG平键空心轴  
K306SH平键空心轴  
K306SI锁紧盘空心轴  
K306SJ锁紧盘空心轴  
K306SK渐开线花键空心轴  
K306SL渐开线花键空心轴



K306AG平键空心轴  
K306AH平键空心轴  
K306TG平键空心轴  
K306TH平键空心轴  
K306AI锁紧盘空心轴  
K306TI锁紧盘空心轴  
K306AJ锁紧盘空心轴  
K306TJ锁紧盘空心轴  
K306AK渐开线花键空心轴  
K306AL渐开线花键空心轴  
K306TK渐开线花键空心轴  
K306TL渐开线花键空心轴

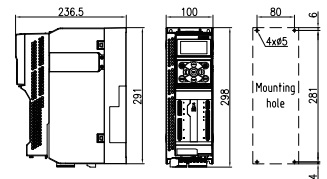
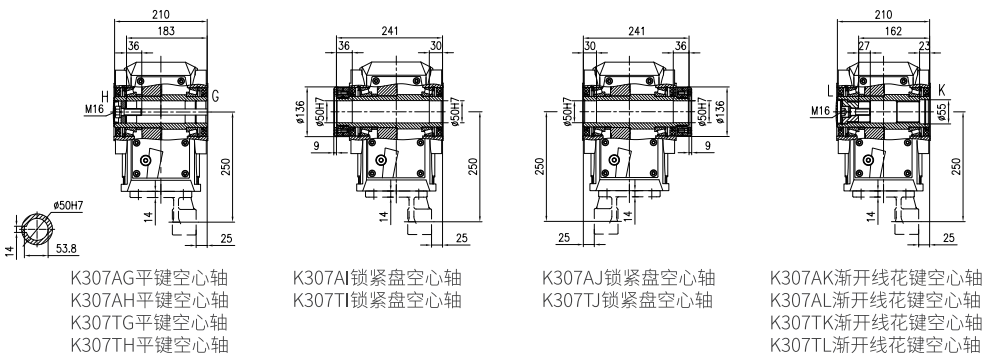
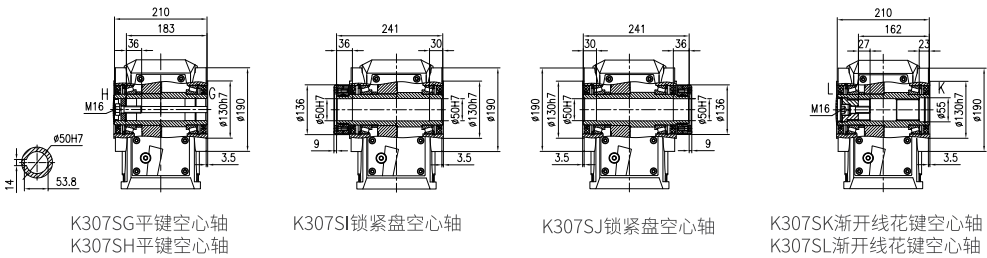
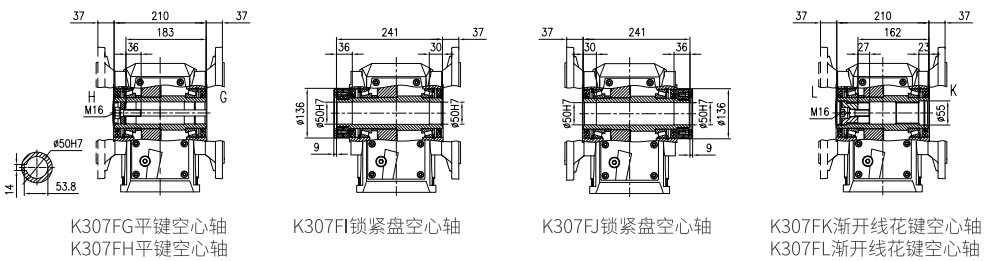
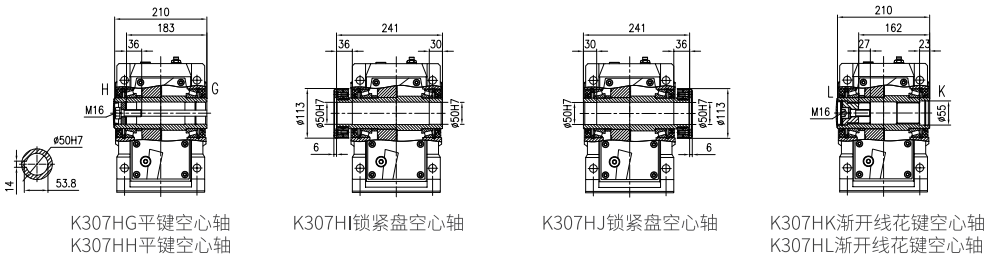


安装形式	K307-MX063M1E20FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K307HA单向平键实心轴 K307HB单向平键实心轴 K307HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K307FA单向平键实心轴 K307FB单向平键实心轴 K307FC双向平键实心轴 K307FD单向平键实心轴 K307FE单向平键实心轴 K307FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

注:括号内为带制动器的伺服马达长度

## K307-MX063M1E20FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



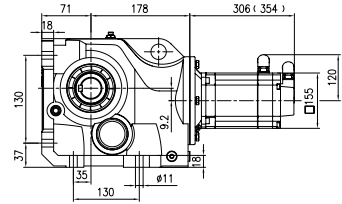
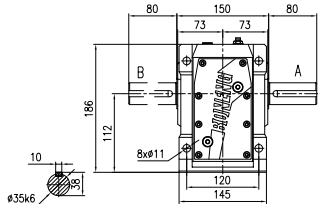
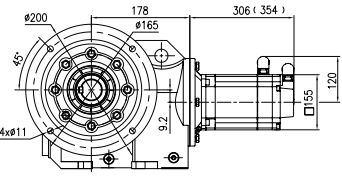
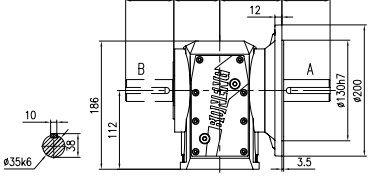
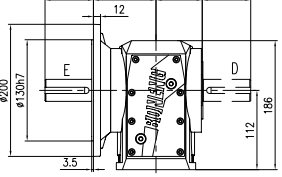
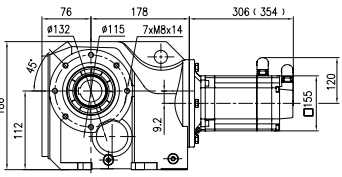
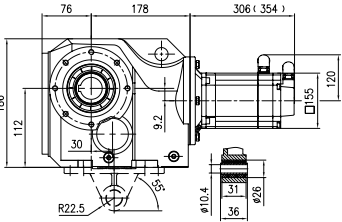
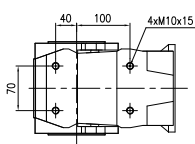
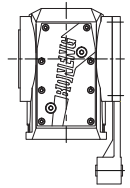
控制模块: AX-CM55-PA-PE(ProfiNet)  
 或AX-CM55-EA-PE(EtherCAT)  
 功率模块: AX-PM26-B3B40-N(不带滤波器)  
 或AX-PM26-B3B40-F(带滤波器)  
 操作模块: A1-OP25

### 伺服马达：3.98kW 19Nm 8.1A-2000r/min

齿轮箱实际 输出转速	齿轮箱实际 输出扭矩	齿轮箱公称 减速比代号	齿轮箱公称 减速比	齿轮箱精确 减速比	齿轮箱 齿数比	齿轮箱额定 输出扭矩	齿轮箱 转动惯量	齿轮箱 背隙	齿轮箱 服务系数
$n_{2N}$ (r/min)	T2 (N.m)	Code	$i_N$	$i_{ex}$	$i_z$	$T_{2N}$	$J \cdot 10^{-4}$ (kg.m <sup>2</sup> )	$\Phi$ (°)	f
484	78	B40	4	4.13	355/86	200	5.4	19	2.56
432	88	B45	4.5	4.63	1988/429	230	4.3	19	2.61
382	99	B50	5	5.23	2130/407	250	3.5	18	2.53
344	110	B56	5.6	5.81	639/110	260	2.9	18	2.36
323	118	B63	6.3	6.19	1065/172	280	3.8	17	2.37
288	132	B71	7.1	6.95	994/143	280	3.1	17	2.12
255	149	B80	8	7.85	3195/407	300	2.5	16	2.01
230	165	B90	9	8.71	1917/220	310	2.1	16	1.88
200	190	C10	10	9.98	639/64	340	1.7	16	1.79
182	209	C11	11.2	11	1207/110	360	1.5	16	1.72
161	236	C13	12.5	12.4	1633/132	380	1.2	16	1.61
148	257	C14	14	13.5	9900/731	400	3	10	1.56
132	289	C16	16	15.2	3360/221	420	2.5	10	1.45
192	198	C10	10	10.4	1088/105	450	2.2	16	2.27
187	203	C11	11.2	10.7	15675/1462	460	4.1	11	2.27
167	228	C13	12.5	12	2660/221	500	3.3	11	2.19
147	258	C14	14	13.6	8550/629	550	2.7	11	2.13
132	287	C16	16	15.1	513/34	600	2.3	11	2.09
116	329	C18	18	17.3	9405/544	620	1.8	11	1.88
105	361	C20	20	19	19/1	650	1.5	10	1.8
93.5	407	C22	22.4	21.4	2185/102	680	1.3	10	1.67
87.3	435	C25	25	22.9	20235/884	680	1.1	10	1.56
104.2	365	C20	20	19.2	16995/884	850	3.6	9	2.33
88.1	431	C22	22.4	22.7	1545/68	950	3.8	8	2.20
76.9	494	C25	25	26.0	16377/629	950	3.2	8	1.92
71.9	528	C28	28	27.8	5665/204	950	2.9	8	1.80
64.1	593	C32	31.5	31.2	16995/544	950	3.8	8	1.6
64.5	589	C32	31.5	31	33511/1080	1750	10.6	8	2.97
56.7	671	C36	35.5	35.3	5828/165	1750	8.8	7	2.61
51	745	C40	40	39.2	235/6	1750	7.7	7	2.35
44.5	853	C45	45	44.9	53909/1200	1750	6.6	7	2.05
39.6	960	C50	50	50.5	112189/2220	1750	5.7	7	1.82
35.4	1074	C56	56	56.5	7285/129	1750	4.9	7	1.63
31.8	1195	C63	63	62.9	147157/2340	1750	4.3	7	1.46
39	975	C50	50	51.3	6565/128	3000	18	7	3.08
34.7	1096	C56	56	57.7	20301/352	3000	16	7	2.74
31.6	1201	C63	63	63.2	62721/992	3000	14	7	2.5
27.4	1387	C71	71	73	8181/112	3000	12	6	2.16
25.7	1480	C80	80	77.9	77265/992	3000	11	6	2.03
22.2	1710	C90	90	90	5757/64	3000	8.9	6	1.75
19.6	1944	D10	100	102.3	8181/80	3000	7.7	6	1.54
23.1	1642	C90	90	86.4	13386/155	5000	37	6	3.05
20.3	1873	D10	100	98.6	690/7	5000	32	6	2.67
19	1997	D11	112	105.1	16284/155	5000	29	6	2.5
16.6	2295	D13	125	120.8	483/4	4300	24	6	1.87
14.7	2580	D14	140	135.8	16974/125	4300	21	6	1.67
13.3	2850	D16	160	150	150/1	4300	18	6	1.51

注：启停次数≤60次/小时，服务系数f推荐1.5；启停次数≤120次/小时，服务系数f推荐1.75；启停次数>120次/小时，服务系数f推荐2以上；

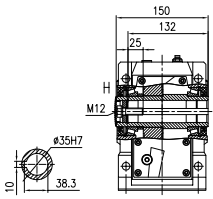
伺服齿轮马达订货号	伺服驱动器订货号			线缆配置订货号		制动电阻订货号
	控制模块	功率模块	操作面板	伺服马达动力线	伺服马达信号线	
K304□□-B40-D□□□-MX080M1E20FS0	AX-CM55-□□-PE PA:PROFINET通讯 EA:EtherCAT通讯	AX-PM26-B3B75-□ N:不带滤波器 F:带滤波器	A1-OP25	A1-H□□-A25-□□ 18:无制动器 16:带制动器 动力线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ 信号线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-B25-K-C75
K304□□-B45-D□□□-MX080M1E20FS0						
K304□□-B50-D□□□-MX080M1E20FS0						
K304□□-B56-D□□□-MX080M1E20FS0						
K304□□-B63-D□□□-MX080M1E20FS0						
K304□□-B71-D□□□-MX080M1E20FS0						
K304□□-B80-D□□□-MX080M1E20FS0						
K304□□-B90-D□□□-MX080M1E20FS0						
K304□□-C10-D□□□-MX080M1E20FS0						
K304□□-C11-D□□□-MX080M1E20FS0						
K304□□-C13-D□□□-MX080M1E20FS0						
K304□□-C14-D□□□-MX080M1E20FS0						
K304□□-C16-D□□□-MX080M1E20FS0						
K305□□-C10-D□□□-MX080M1E20FS0						
K305□□-C11-D□□□-MX080M1E20FS0						
K305□□-C13-D□□□-MX080M1E20FS0						
K305□□-C14-D□□□-MX080M1E20FS0						
K305□□-C16-D□□□-MX080M1E20FS0						
K305□□-C18-D□□□-MX080M1E20FS0						
K305□□-C20-D□□□-MX080M1E20FS0						
K305□□-C22-D□□□-MX080M1E20FS0						
K305□□-C25-D□□□-MX080M1E20FS0						
K306□□-C20-D□□□-MX080M1E20FS0						
K306□□-C22-D□□□-MX080M1E20FS0						
K306□□-C25-D□□□-MX080M1E20FS0						
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K308□□-C80-D□□□-MX080M1E20FS0						
K308□□-C90-D□□□-MX080M1E20FS0						
K308□□-D10-D□□□-MX080M1E20FS0						
K309□□-C90-D□□□-MX080M1E20FS0						
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K309□□-D11-D□□□-MX080M1E20FS0						
K309□□-D13-D□□□-MX080M1E20FS0						
K309□□-D14-D□□□-MX080M1E20FS0						
K309□□-D16-D□□□-MX080M1E20FS0						

安装形式	<b>K304-MX080M1E20FS0外形尺寸图 (mm)</b>		
底脚安装	 <p style="text-align: center;">底脚安装H</p>	 <p style="text-align: center;">K304HA单向平键实心轴 K304HB单向平键实心轴 K304HC双向平键实心轴</p>	
法兰安装	 <p style="text-align: center;">法兰安装F</p>	 <p style="text-align: center;">K304FA单向平键实心轴 K304FB单向平键实心轴 K304FC双向平键实心轴</p>  <p style="text-align: center;">K304FD单向平键实心轴 K304FE单向平键实心轴 K304FF双向平键实心轴</p>	
小法兰安装	 <p style="text-align: center;">小法兰安装S</p>		
带扭力臂附件安装 轴装式安装	 <p style="text-align: center;">带底面扭力臂附件安装T</p>	 <p style="text-align: center;">轴装式安装A</p>  <p style="text-align: center;">带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

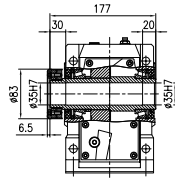
注: 括号内为带制动器的伺服马达长度

**K304-MX080M1E20FS0外形尺寸图 (mm)**

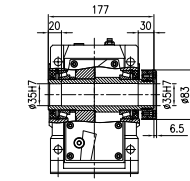
**所配伺服驱动器外形尺寸图**



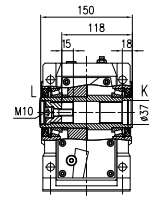
K304HG平键空心轴  
K304HH平键空心轴



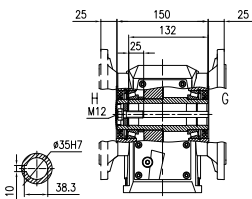
K304HI锁紧盘空心轴



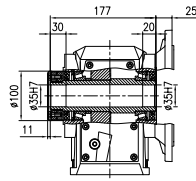
K304HJ锁紧盘空心轴



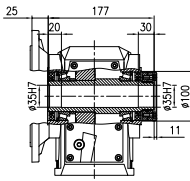
K304HK渐开线花键空心轴  
K304HL渐开线花键空心轴



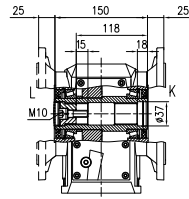
K304FG平键空心轴  
K304FH平键空心轴



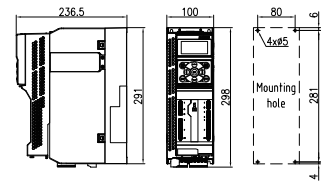
K304FI锁紧盘空心轴



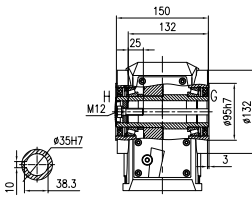
K304FJ锁紧盘空心轴



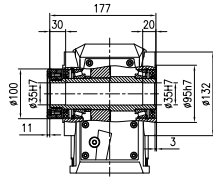
K304FK渐开线花键空心轴  
K304FL渐开线花键空心轴



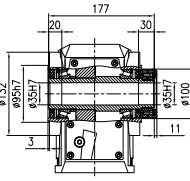
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B75-N(不带滤波器)  
或AX-PM26-B3B75-F(带滤波器)  
操作模块: A1-OP25



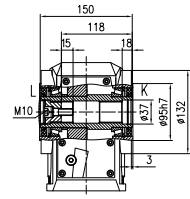
K304SG平键空心轴  
K304SH平键空心轴



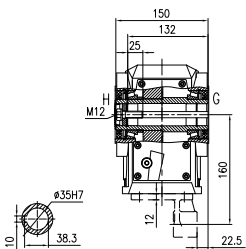
K304SI锁紧盘空心轴



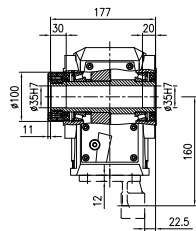
K304SJ锁紧盘空心轴



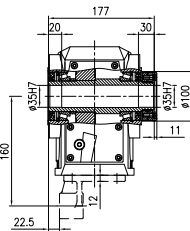
K304SK渐开线花键空心轴  
K304SL渐开线花键空心轴



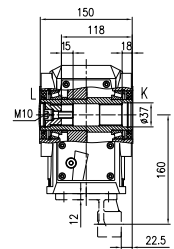
K304AG平键空心轴  
K304AH平键空心轴  
K304TG平键空心轴  
K304TH平键空心轴



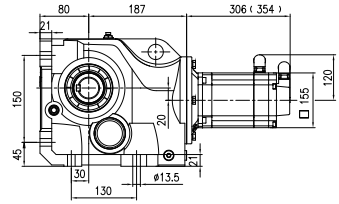
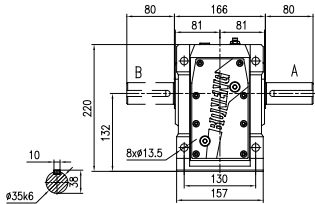
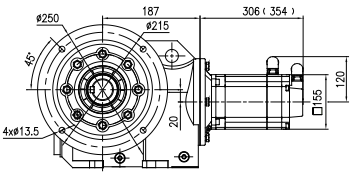
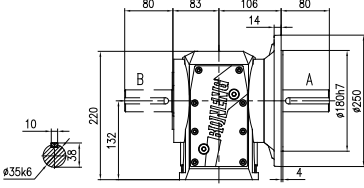
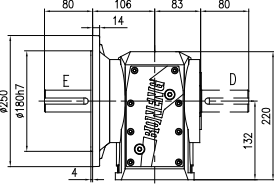
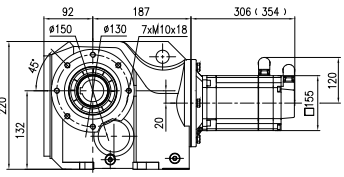
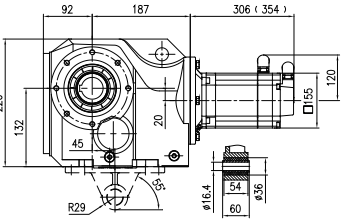
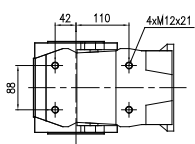
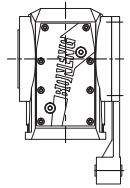
K304AI锁紧盘空心轴  
K304TI锁紧盘空心轴



K304AJ锁紧盘空心轴  
K304TJ锁紧盘空心轴



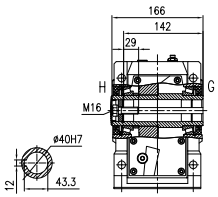
K304AK渐开线花键空心轴  
K304AL渐开线花键空心轴  
K304TK渐开线花键空心轴  
K304TL渐开线花键空心轴

安装形式	K305-MX080M1E20FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K305HA单向平键实心轴 K305HB单向平键实心轴 K305HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K305FA单向平键实心轴 K305FB单向平键实心轴 K305FC双向平键实心轴</p>  <p>K305FD单向平键实心轴 K305FE单向平键实心轴 K305FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

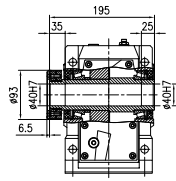
注: 括号内为带制动器的伺服马达长度

## K305-MX080M1E20FS0外形尺寸图 (mm)

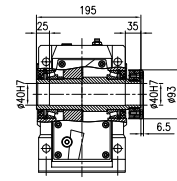
## 所配伺服驱动器外形尺寸图



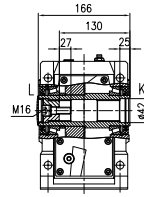
K305HG平键空心轴  
K305HH平键空心轴



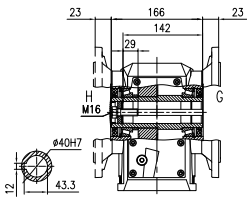
K305HI锁紧盘空心轴



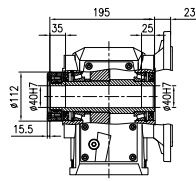
K305HJ锁紧盘空心轴



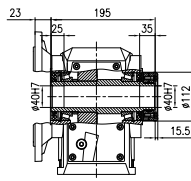
K305HK渐开线花键空心轴  
K305HL渐开线花键空心轴



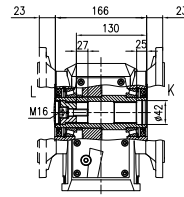
K305FG平键空心轴  
K305FH平键空心轴



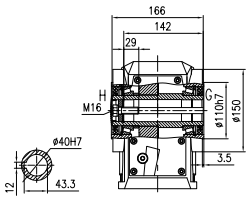
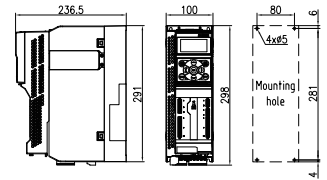
K305FI锁紧盘空心轴



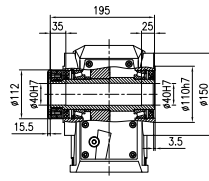
K305FJ锁紧盘空心轴



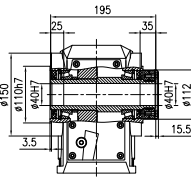
K305FK渐开线花键空心轴  
K305FL渐开线花键空心轴



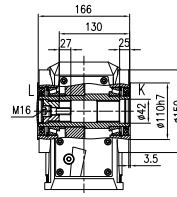
K305SG平键空心轴  
K305SH平键空心轴



K305SI锁紧盘空心轴

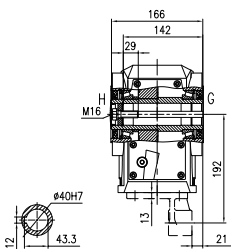


K305SJ锁紧盘空心轴

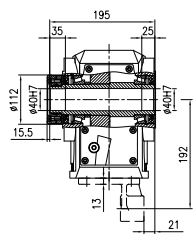


K305SK渐开线花键空心轴  
K305SL渐开线花键空心轴

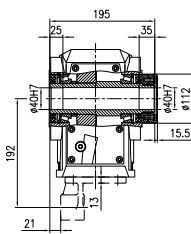
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B75-N(不带滤波器)  
或AX-PM26-B3B75-F(带滤波器)  
操作模块: A1-OP25



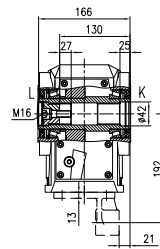
K305AG平键空心轴  
K305AH平键空心轴  
K305TG平键空心轴  
K305TH平键空心轴



K305AI锁紧盘空心轴  
K305TI锁紧盘空心轴

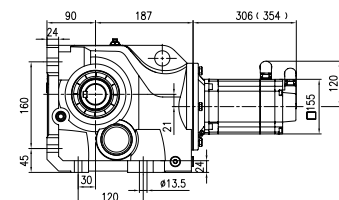
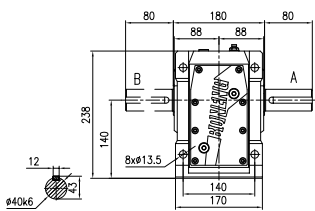
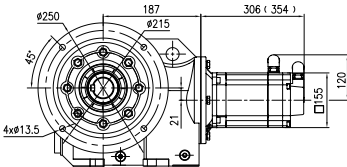
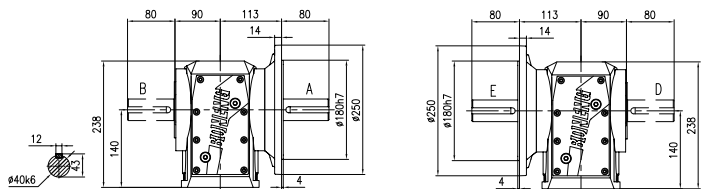
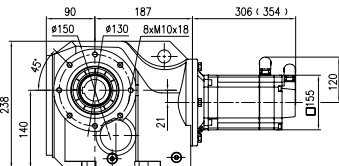
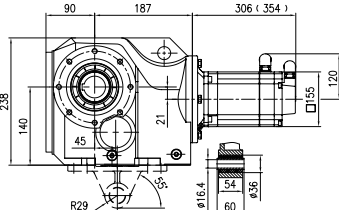
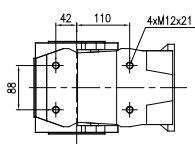
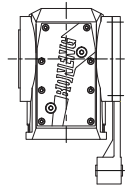


K305AJ锁紧盘空心轴  
K305TJ锁紧盘空心轴



K305AK渐开线花键空心轴  
K305AL渐开线花键空心轴  
K305TK渐开线花键空心轴  
K305TL渐开线花键空心轴

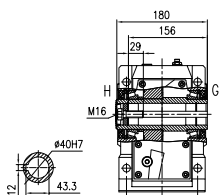


安装形式	<b>K306-MX080M1E20FS0外形尺寸图 (mm)</b>		
底脚安装	 <p style="text-align: center;">底脚安装H</p>	 <p style="text-align: center;">K306HA单向平键实心轴 K306HB单向平键实心轴 K306HC双向平键实心轴</p>	
法兰安装	 <p style="text-align: center;">法兰安装F</p>	 <p style="text-align: center;">K306FA单向平键实心轴 K306FB单向平键实心轴 K306FC双向平键实心轴</p> <p style="text-align: center;">K306FD单向平键实心轴 K306FE单向平键实心轴 K306FF双向平键实心轴</p>	
小法兰安装	 <p style="text-align: center;">小法兰安装S</p>		
带扭力臂附件安装 轴装式安装	 <p style="text-align: center;">带底面扭力臂附件安装T</p>	 <p style="text-align: center;">轴装式安装A</p>	 <p style="text-align: center;">带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

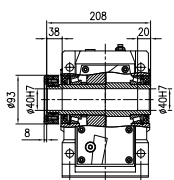
注: 括号内为带制动器的伺服马达长度

## K306-MX080M1E20FS0外形尺寸图 (mm)

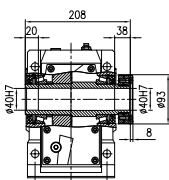
## 所配伺服驱动器外形尺寸图



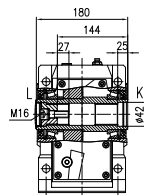
K306HG平键空心轴  
K306HH平键空心轴



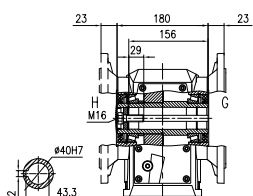
K306HI锁紧盘空心轴



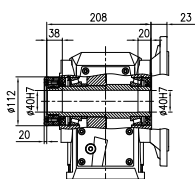
K306HJ锁紧盘空心轴



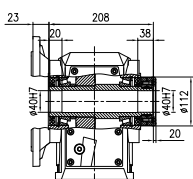
K306HK渐开线花键空心轴  
K306HL渐开线花键空心轴



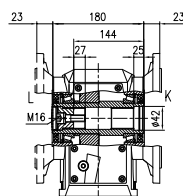
K306FG平键空心轴  
K306FH平键空心轴



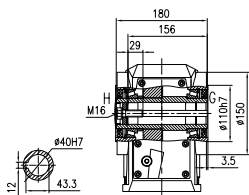
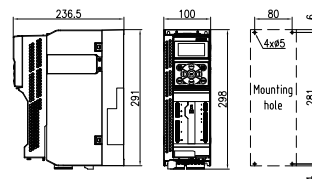
K306FI锁紧盘空心轴



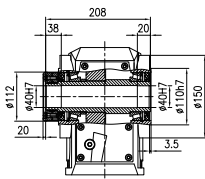
K306FJ锁紧盘空心轴



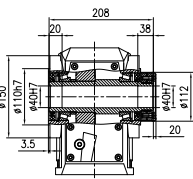
K306FK渐开线花键空心轴  
K306FL渐开线花键空心轴



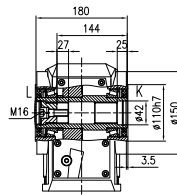
K306SG平键空心轴  
K306SH平键空心轴



K306SI锁紧盘空心轴

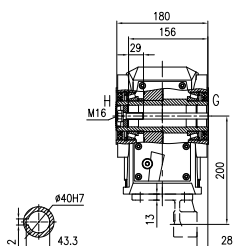


K306SJ锁紧盘空心轴

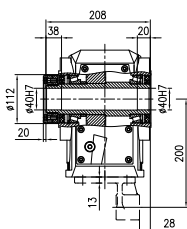


K306SK渐开线花键空心轴  
K306SL渐开线花键空心轴

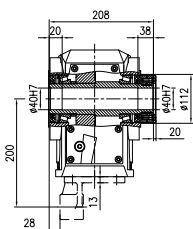
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B75-N(不带滤波器)  
或AX-PM26-B3B75-F(带滤波器)  
操作模块: A1-OP25



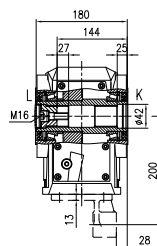
K306AG平键空心轴  
K306AH平键空心轴  
K306TG平键空心轴  
K306TH平键空心轴



K306AI锁紧盘空心轴  
K306TI锁紧盘空心轴



K306AJ锁紧盘空心轴  
K306TJ锁紧盘空心轴



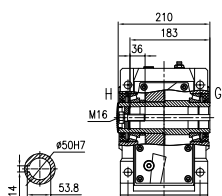
K306AK渐开线花键空心轴  
K306AL渐开线花键空心轴  
K306TK渐开线花键空心轴  
K306TL渐开线花键空心轴

安装形式	K307-MX080M1E20FS0外形尺寸图 (mm)		
底脚安装	<p>底脚安装H</p>	<p>K307HA单向平键实心轴 K307HB单向平键实心轴 K307HC双向平键实心轴</p>	
法兰安装	<p>法兰安装F</p>	<p>K307FA单向平键实心轴 K307FB单向平键实心轴 K307FC双向平键实心轴</p>	<p>K307FD单向平键实心轴 K307FE单向平键实心轴 K307FF双向平键实心轴</p>
小法兰安装	<p>小法兰安装S</p>		
轴装式安装 带扭力臂附件安装	<p>带底面扭力臂附件安装T</p>	<p>轴装式安装A</p>	<p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

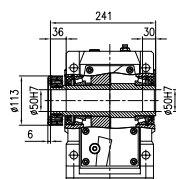
注: 括号内为带制动器的伺服马达长度

## K307-MX080M1E20FS0外形尺寸图 (mm)

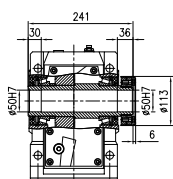
## 所配伺服驱动器外形尺寸图



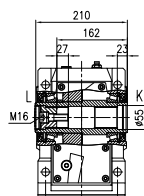
K307HG平键空心轴  
K307HH平键空心轴



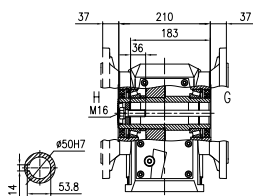
K307HI锁紧盘空心轴



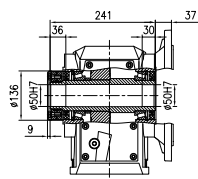
K307HJ锁紧盘空心轴



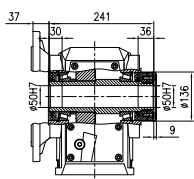
K307HK渐开线花键空心轴  
K307HL渐开线花键空心轴



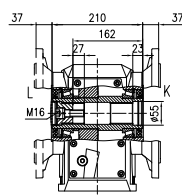
K307FG平键空心轴  
K307FH平键空心轴



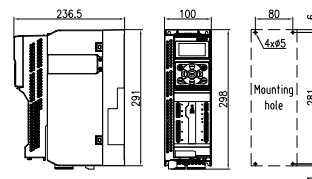
K307FI锁紧盘空心轴



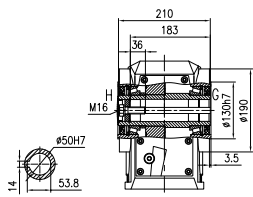
K307FJ锁紧盘空心轴



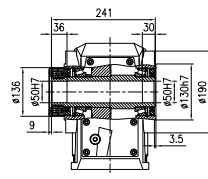
K307FK渐开线花键空心轴  
K307FL渐开线花键空心轴



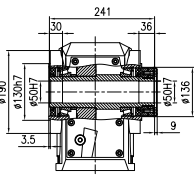
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B75-N(不带滤波器)  
或AX-PM26-B3B75-F(带滤波器)  
操作模块: A1-OP25



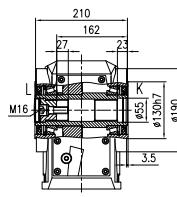
K307SG平键空心轴  
K307SH平键空心轴



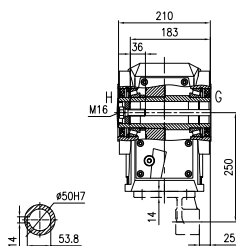
K307SI锁紧盘空心轴



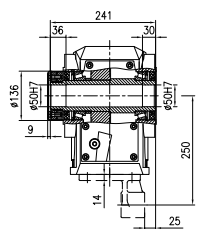
K307SJ锁紧盘空心轴



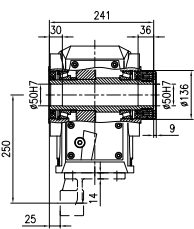
K307SK渐开线花键空心轴  
K307SL渐开线花键空心轴



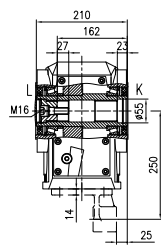
K307AG平键空心轴  
K307AH平键空心轴  
K307TG平键空心轴  
K307TH平键空心轴



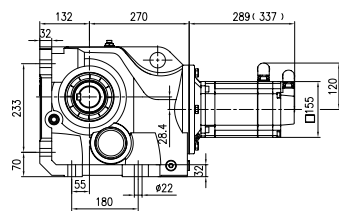
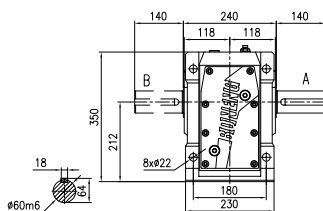
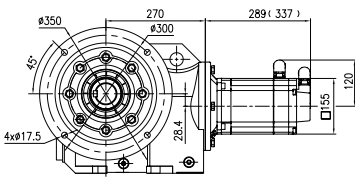
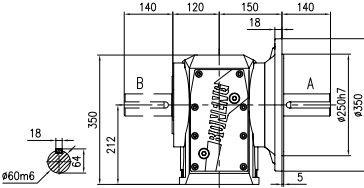
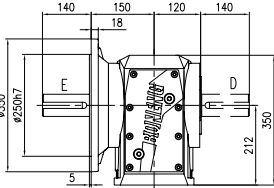
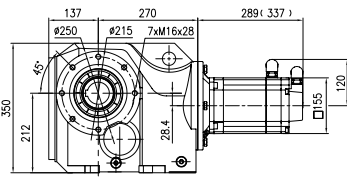
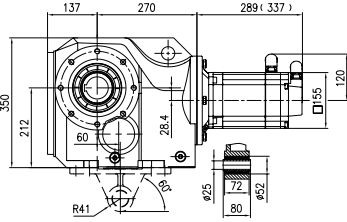
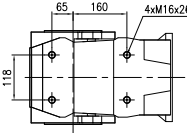
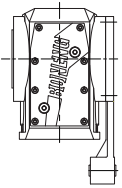
K307AI锁紧盘空心轴  
K307TI锁紧盘空心轴



K307AJ锁紧盘空心轴  
K307TJ锁紧盘空心轴



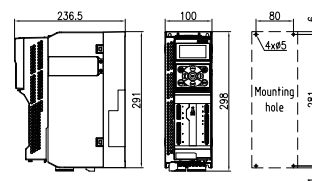
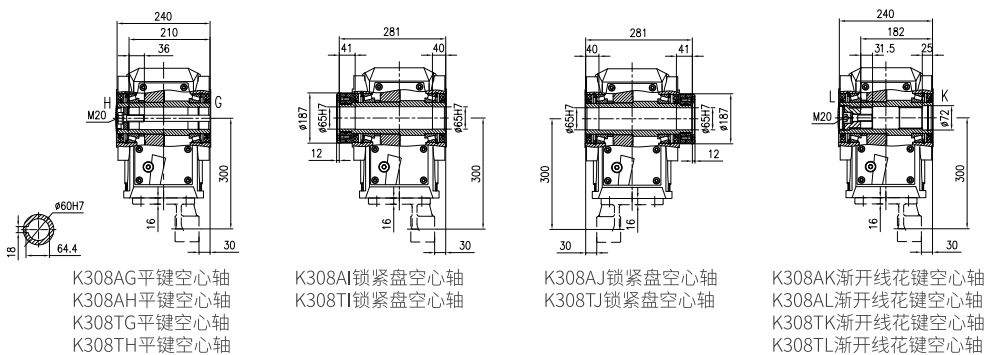
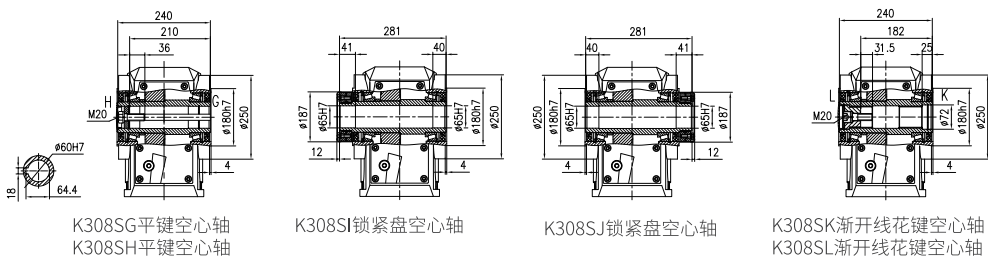
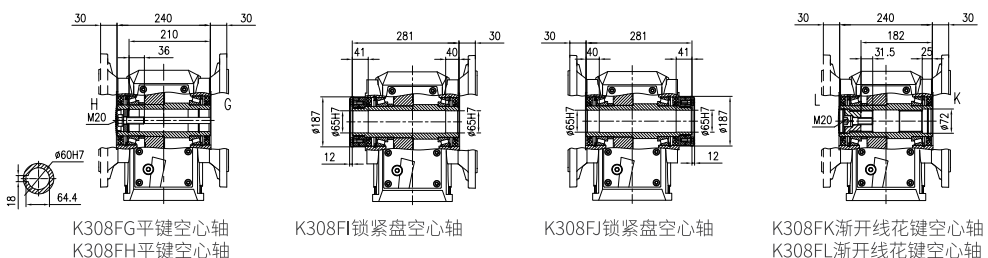
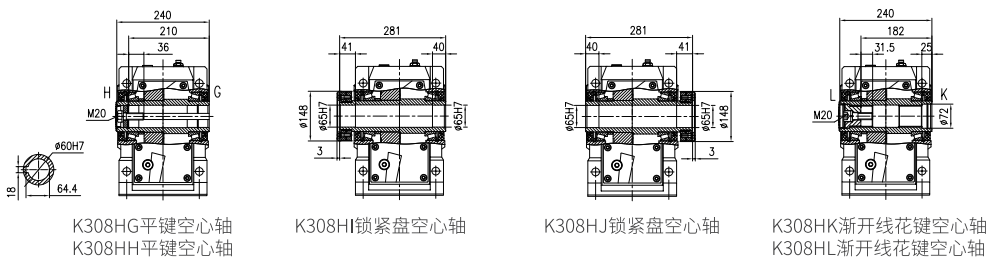
K307AK渐开线花键空心轴  
K307AL渐开线花键空心轴  
K307TK渐开线花键空心轴  
K307TL渐开线花键空心轴

安装形式	K308-MX080M1E20FS0外形尺寸图(mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K308HA单向平键实心轴 K308HB单向平键实心轴 K308HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K308FA单向平键实心轴 K308FB单向平键实心轴 K308FC双向平键实心轴</p>	 <p>K308FD单向平键实心轴 K308FE单向平键实心轴 K308FF双向平键实心轴</p>
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>	 <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

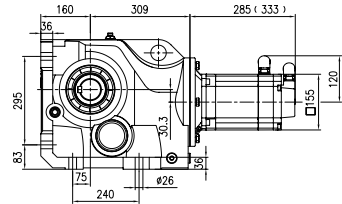
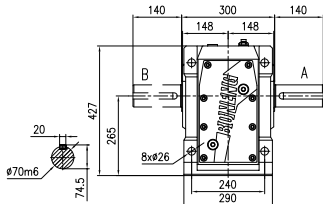
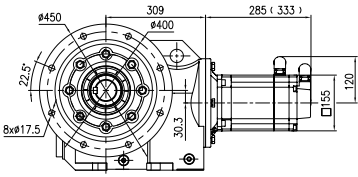
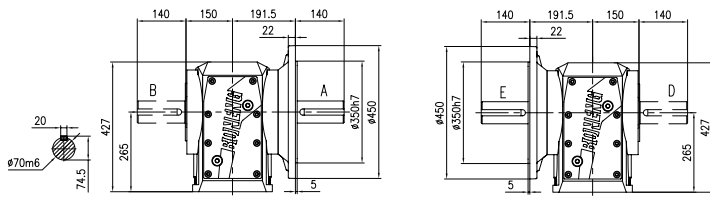
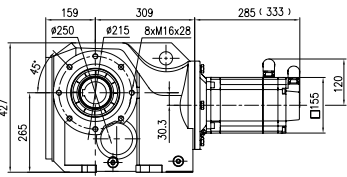
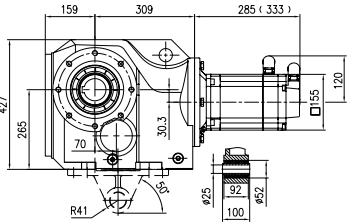
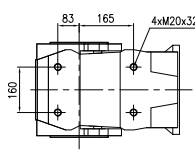
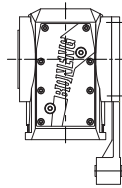
注:括号内为带制动器的伺服马达长度

## K308-MX080M1E20FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



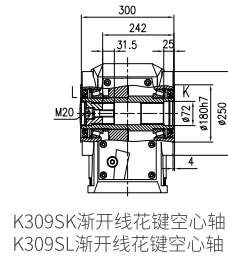
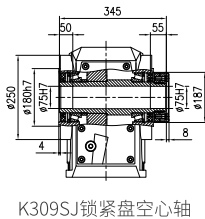
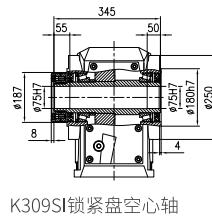
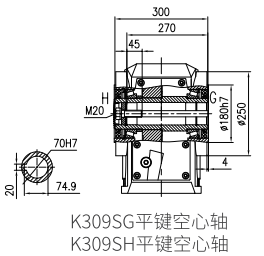
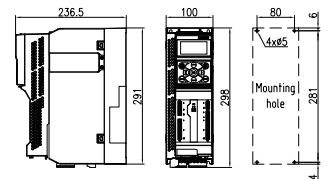
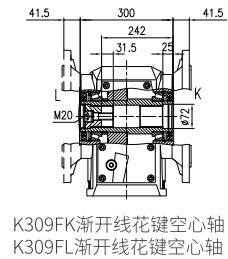
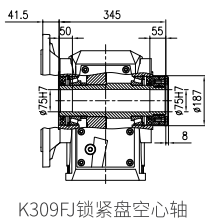
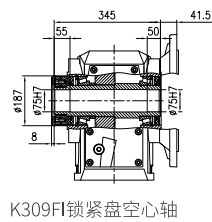
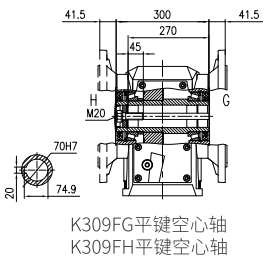
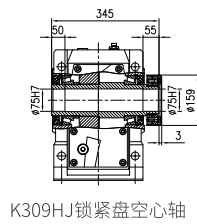
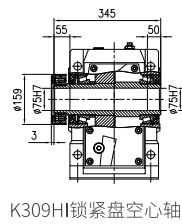
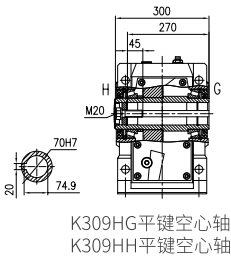
控制模块: AX-CM55-PA-PE(ProfiNet)  
 或AX-CM55-EA-PE(EtherCAT)  
 功率模块: AX-PM26-B3B75-N(不带滤波器)  
 或AX-PM26-B3B75-F(带滤波器)  
 操作模块: A1-OP25

安装形式	K309-MX080M1E20FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K309HA单向平键实心轴 K309HB单向平键实心轴 K309HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K309FA单向平键实心轴 K309FB单向平键实心轴 K309FC双向平键实心轴</p> <p>K309FD单向平键实心轴 K309FE单向平键实心轴 K309FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

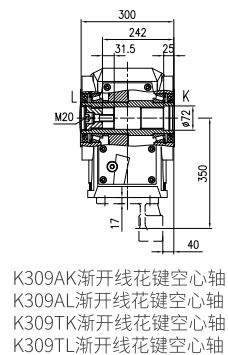
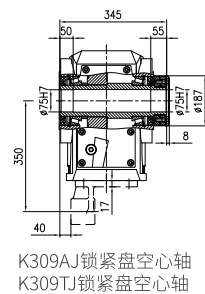
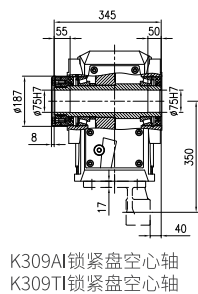
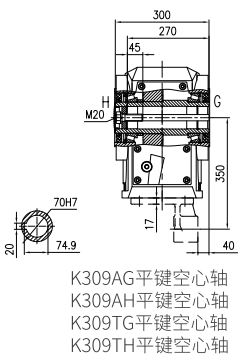
注:括号内为带制动器的伺服马达长度

## K309-MX080M1E20FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3B75-N(不带滤波器)  
或AX-PM26-B3B75-F(带滤波器)  
操作模块: A1-OP25



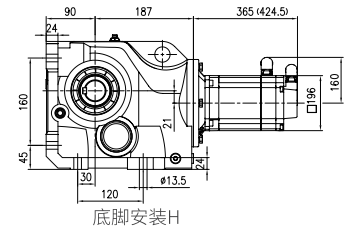
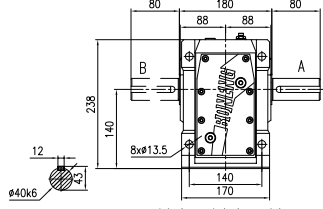
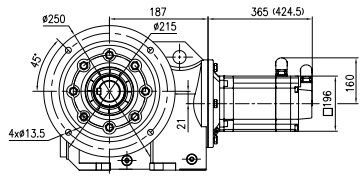
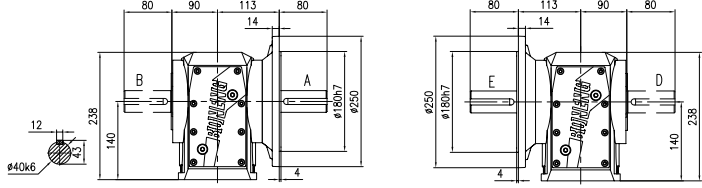
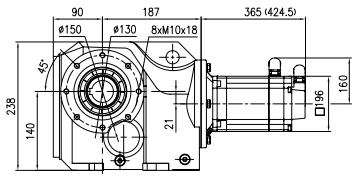
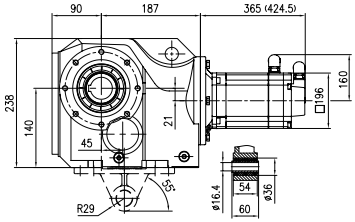
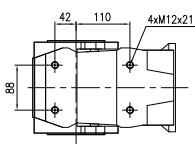
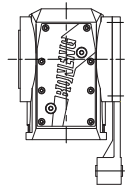


### 伺服马达：6.6kW 42Nm 14.5A-1500r/min

齿轮箱实际 输出转速	齿轮箱实际 输出扭矩	齿轮箱公称 减速比代号	齿轮箱公称 减速比	齿轮箱精确 减速比	齿轮箱 齿数比	齿轮箱额定 输出扭矩	齿轮箱 转动惯量	齿轮箱 背隙	齿轮箱 服务系数
$n_{2N}$ (r/min)	T2 (N.m)	Code	$i_N$	$i_{ex}$	$i_z$	$T_{2N}$	$J \cdot 10^{-4}$ (kg.m <sup>2</sup> )	$\Phi$ (°)	f
357	176	B40	4	4.2	3355/798	680	15	18	3.86
311	202	B45	4.5	4.82	71126/14763	680	12	17	3.37
292	216	B50	5	5.14	36905/7182	700	10	17	3.24
268	235	B56	5.6	5.59	352/63	730	12	14	3.11
249	253	B63	6.3	6.02	915/152	750	10	15	2.96
217	290	B71	7.1	6.9	9699/1406	750	8.1	15	2.59
188	336	B80	8	8	8/1	750	8.9	12	2.23
164	385	B90	9	9.17	1696/185	750	7	12	1.95
153	411	C10	10	9.78	88/9	750	6.3	12	1.82
132	479	C11	11.2	11.4	1545/136	750	7.8	9	1.57
151	417	C10	10	9.93	1887/190	1300	14	13	3.12
134	470	C11	11.2	11.2	7854/703	1300	11	12	2.77
125	504	C13	12.5	12	1081/90	1380	20	9	2.74
109	575	C14	14	13.7	752/55	1550	16	9	2.7
98.7	638	C16	16	15.2	470/31	1650	14	9	2.59
86.2	731	C18	18	17.4	1739/100	1650	11	9	2.26
76.5	823	C20	20	19.6	3619/185	1650	9.1	9	2
68.2	924	C22	22.4	22.0	11891/540	1650	11	8	1.79
59.8	1054	C25	25	25.1	376/15	1750	9.1	8	1.66
54.0	1168	C28	28	27.8	2585/93	1750	8	8	1.50
66.4	949	C22	22.4	22.6	33835/1496	2850	17	7	3
60.5	1042	C25	25	24.8	104535/4216	3000	20	7	2.88
52.4	1201	C28	28	28.4	13635/476	3000	16	7	2.50
49.2	1291	C32	31.5	30.5	7575/248	3000	15	7	2.34
42.0	1499	C36	35.5	35.7	14847/416	3000	25	7	2.00
36.9	1705	C40	40	40.6	4545/112	3000	22	7	1.76
31.9	1974	C45	45	47	48177/1024	3000	24	7	1.52
39.7	1588	C40	40	37.8	3588/95	5000	93	6	3.15
33.6	1873	C45	45	44.6	759/17	5000	77	6	2.67
30	2100	C50	50	50	2001/40	5000	71	6	2.38
28.1	2243	C56	56	53.4	1656/31	5000	66	6	2.23
24.5	2566	C63	63	61.1	2139/35	5000	56	6	1.95
22.1	2852	C71	71	67.9	4416/65	5000	49	6	1.75
19.5	3238	C80	80	77.1	1541/20	5000	44	6	1.54
22.2	2843	C71	71	67.7	2100/31	9000	99	6	3.17
19.5	3234	C80	80	77	77/1	9000	84	6	2.78
17.4	3620	C90	90	86.2	1120/13	9000	74	6	2.49
15.7	4019	D10	100	95.7	287/3	9000	65	6	2.24
13.4	4704	D11	112	112	112/1	9000	52	6	1.91
12.5	5057	D13	125	120.4	602/5	9000	49	6	1.78

注：启停次数≤60次/小时，服务系数f推荐1.5；启停次数≤120次/小时，服务系数f推荐1.75；启停次数>120次/小时，服务系数f推荐2以上；

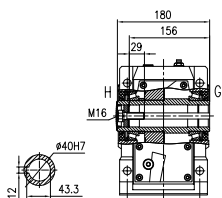
伺服齿轮马达订货号	伺服驱动器订货号			线缆配置订货号		制动电阻订货号
	控制模块	功率模块	操作面板	伺服马达动力线	伺服马达信号线	
K306□□-B40-D□□□-MX100M1E15FS0	AX-CM55-□□-PE PA:PROFINET通讯 EA:EtherCAT通讯	AX-PM26-B3C11-□ N:不带滤波器 F:带滤波器	A1-OP25	A1-H□□-A40-□□□ 18:无制动器 16:带制动器 动力线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ 信号线长度B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-B40-K-C48
K306□□-B45-D□□□-MX100M1E15FS0						
K306□□-B50-D□□□-MX100M1E15FS0						
K306□□-B56-D□□□-MX100M1E15FS0						
K306□□-B63-D□□□-MX100M1E15FS0						
K306□□-B71-D□□□-MX100M1E15FS0						
K306□□-B80-D□□□-MX100M1E15FS0						
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K307□□-C13-D□□□-MX100M1E15FS0						
K307□□-C14-D□□□-MX100M1E15FS0						
K307□□-C16-D□□□-MX100M1E15FS0						
K307□□-C18-D□□□-MX100M1E15FS0						
K307□□-C20-D□□□-MX100M1E15FS0						
K307□□-C22-D□□□-MX100M1E15FS0						
K307□□-C25-D□□□-MX100M1E15FS0						
K307□□-C28-D□□□-MX100M1E15FS0						
K308□□-C22-D□□□-MX100M1E15FS0						
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K308□□-C28-D□□□-MX100M1E15FS0						
K308□□-C32-D□□□-MX100M1E15FS0						
K308□□-C36-D□□□-MX100M1E15FS0						
K308□□-C40-D□□□-MX100M1E15FS0						
K308□□-C45-D□□□-MX100M1E15FS0						
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K309□□-C45-D□□□-MX100M1E15FS0						
K309□□-C50-D□□□-MX100M1E15FS0						
K309□□-C56-D□□□-MX100M1E15FS0						
K309□□-C63-D□□□-MX100M1E15FS0						
K309□□-C71-D□□□-MX100M1E15FS0						
K309□□-C80-D□□□-MX100M1E15FS0						
K310□□-C71-D□□□-MX100M1E15FS0						
K310□□-C80-D□□□-MX100M1E15FS0						
K310□□-C90-D□□□-MX100M1E15FS0						
K310□□-D10-D□□□-MX100M1E15FS0						
K310□□-D11-D□□□-MX100M1E15FS0						
K310□□-D13-D□□□-MX100M1E15FS0						

安装形式	K306-MX100M1E15FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K306HA单向平键实心轴 K306HB单向平键实心轴 K306HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K306FA单向平键实心轴 K306FB单向平键实心轴 K306FC双向平键实心轴</p> <p>K306FD单向平键实心轴 K306FE单向平键实心轴 K306FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

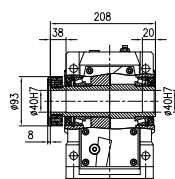
注: 括号内为带制动器的伺服马达长度

## K306-MX100M1E15FS0外形尺寸图 (mm)

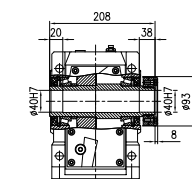
## 所配伺服驱动器外形尺寸图



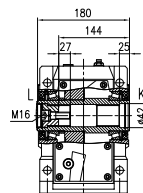
K306HG平键空心轴  
K306HH平键空心轴



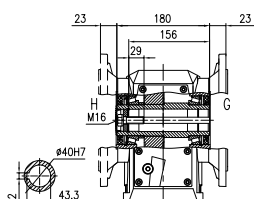
K306HI锁紧盘空心轴



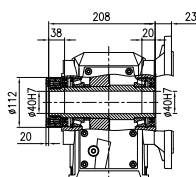
K306HJ锁紧盘空心轴



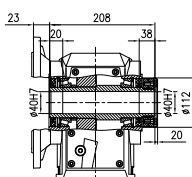
K306HK渐开线花键空心轴  
K306HL渐开线花键空心轴



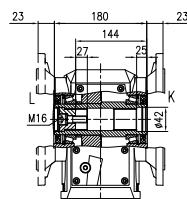
K306FG平键空心轴  
K306FH平键空心轴



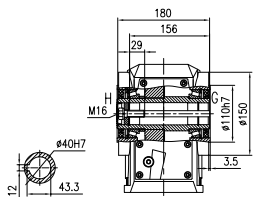
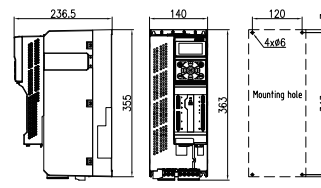
K306FI锁紧盘空心轴



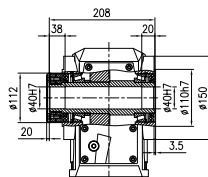
K306FJ锁紧盘空心轴



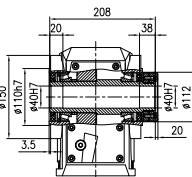
K306FK渐开线花键空心轴  
K306FL渐开线花键空心轴



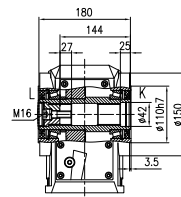
K306SG平键空心轴  
K306SH平键空心轴



K306SI锁紧盘空心轴

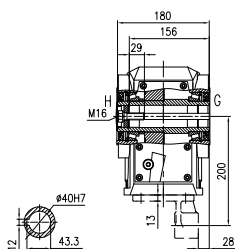


K306SJ锁紧盘空心轴

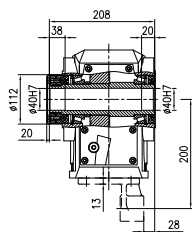


K306SK渐开线花键空心轴  
K306SL渐开线花键空心轴

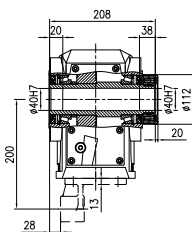
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C11-N(不带滤波器)  
或AX-PM26-B3C11-F(带滤波器)  
操作模块: A1-OP25



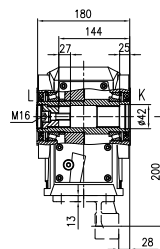
K306AG平键空心轴  
K306AH平键空心轴  
K306TG平键空心轴  
K306TH平键空心轴



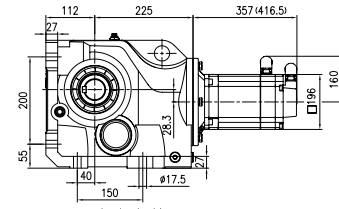
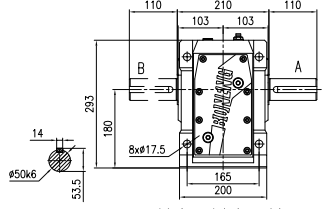
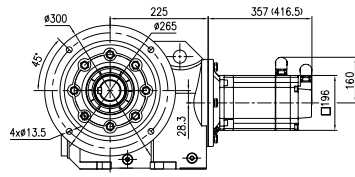
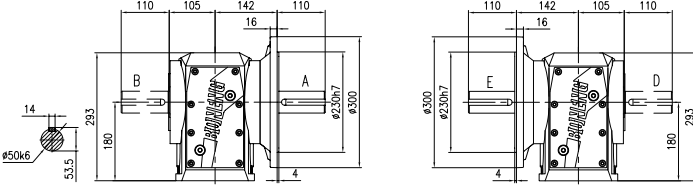
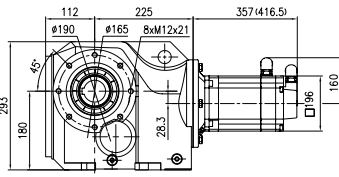
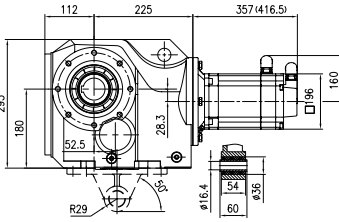
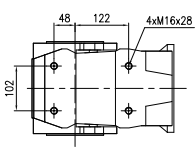
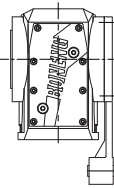
K306AI锁紧盘空心轴  
K306TI锁紧盘空心轴



K306AJ锁紧盘空心轴  
K306TJ锁紧盘空心轴



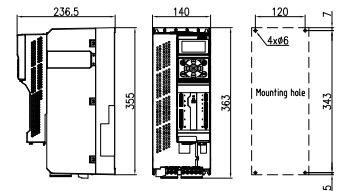
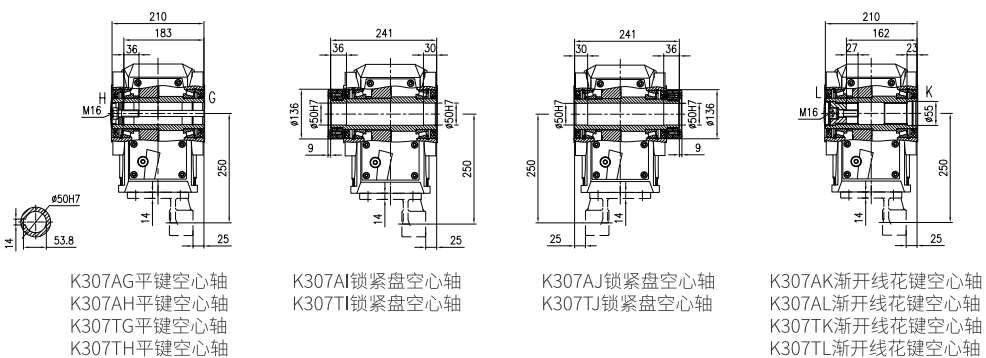
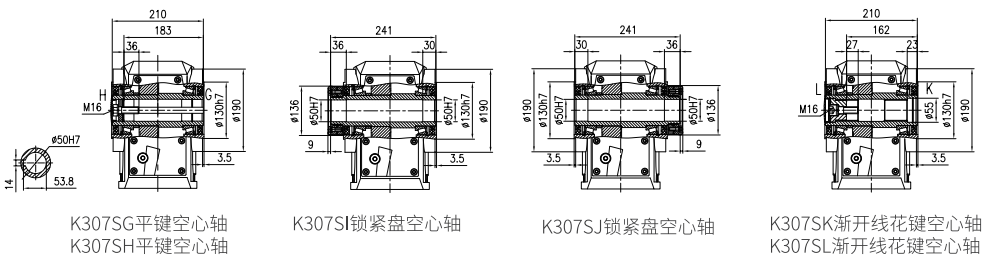
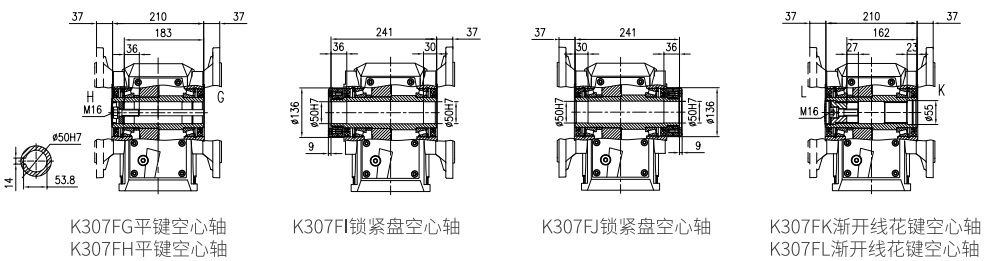
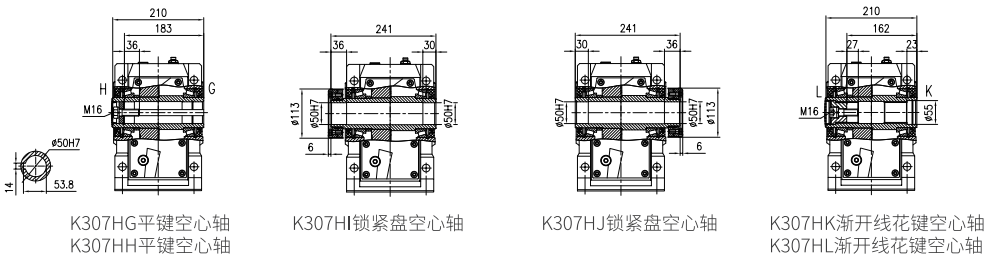
K306AK渐开线花键空心轴  
K306AL渐开线花键空心轴  
K306TK渐开线花键空心轴  
K306TL渐开线花键空心轴

安装形式	K307-MX100M1E15FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K307HA单向平键实心轴 K307HB单向平键实心轴 K307HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K307FA单向平键实心轴 K307FB单向平键实心轴 K307FC双向平键实心轴</p> <p>K307FD单向平键实心轴 K307FE单向平键实心轴 K307FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

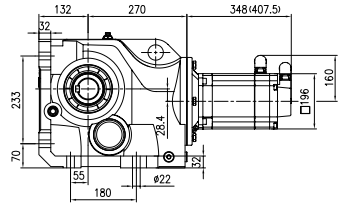
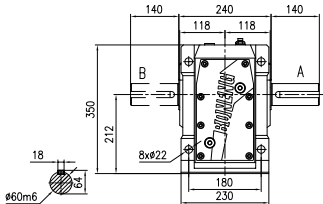
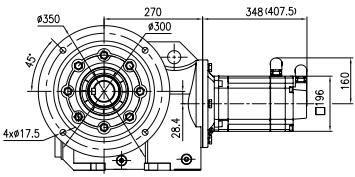
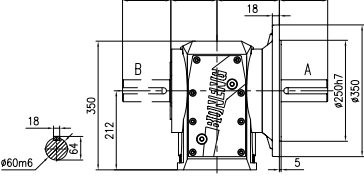
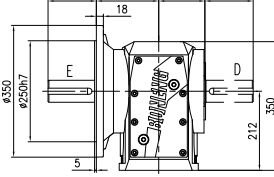
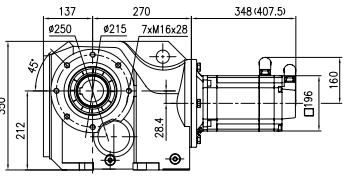
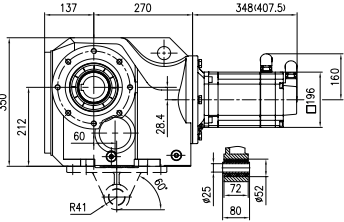
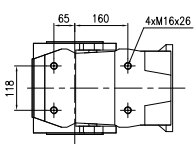
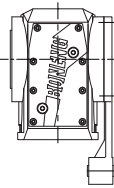
注: 括号内为带制动器的伺服马达长度

## K307-MX100M1E15FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



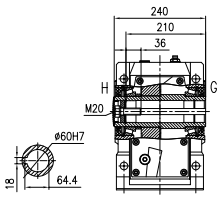
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C11-N(不带滤波器)  
或AX-PM26-B3C11-F(带滤波器)  
操作模块: A1-OP25

安装形式	K308-MX100M1E15FS0外形尺寸图(mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K308HA单向平键实心轴 K308HB单向平键实心轴 K308HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K308FA单向平键实心轴 K308FB单向平键实心轴 K308FC双向平键实心轴</p>  <p>K308FD单向平键实心轴 K308FE单向平键实心轴 K308FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

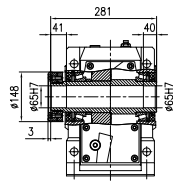
注:括号内为带制动器的伺服马达长度

## K308-MX100M1E15FS0外形尺寸图 (mm)

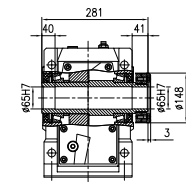
## 所配伺服驱动器外形尺寸图



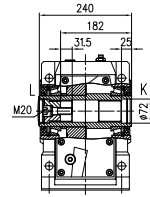
K308HG平键空心轴  
K308HH平键空心轴



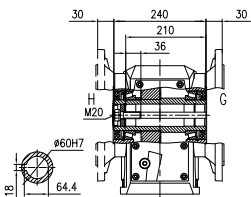
K308HI锁紧盘空心轴



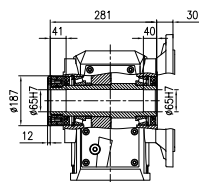
K308HJ锁紧盘空心轴



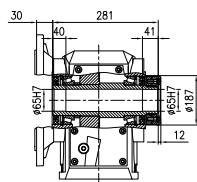
K308HK渐开线花键空心轴  
K308HL渐开线花键空心轴



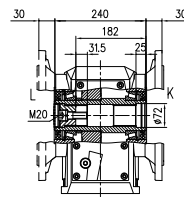
K308FG平键空心轴  
K308FH平键空心轴



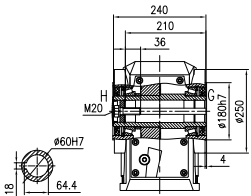
K308FI锁紧盘空心轴



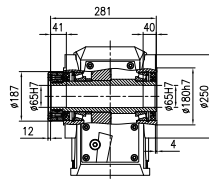
K308FJ锁紧盘空心轴



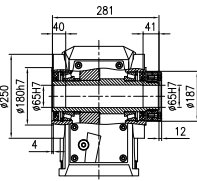
K308FK渐开线花键空心轴  
K308FL渐开线花键空心轴



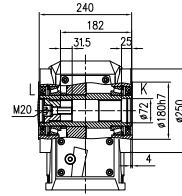
K308SG平键空心轴  
K308SH平键空心轴



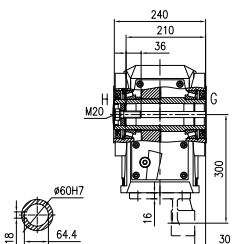
K308SI锁紧盘空心轴



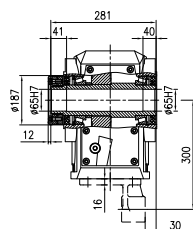
K308SJ锁紧盘空心轴



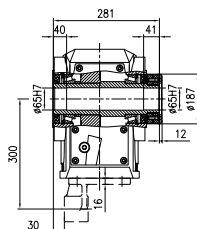
K308SK渐开线花键空心轴  
K308SL渐开线花键空心轴



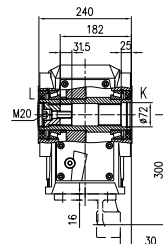
K308AG平键空心轴  
K308AH平键空心轴  
K308TG平键空心轴  
K308TH平键空心轴



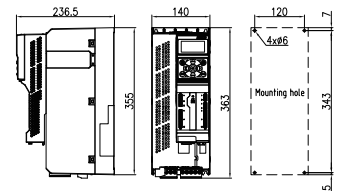
K308AI锁紧盘空心轴  
K308TI锁紧盘空心轴



K308AJ锁紧盘空心轴  
K308TJ锁紧盘空心轴

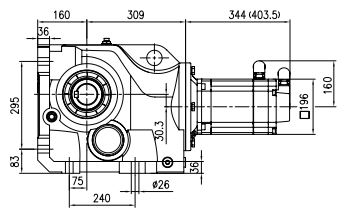
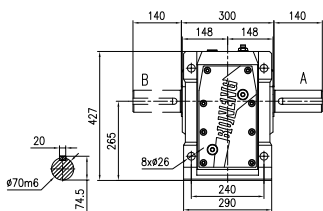
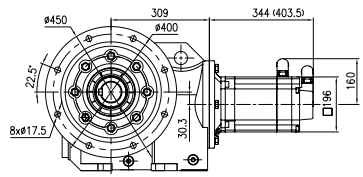
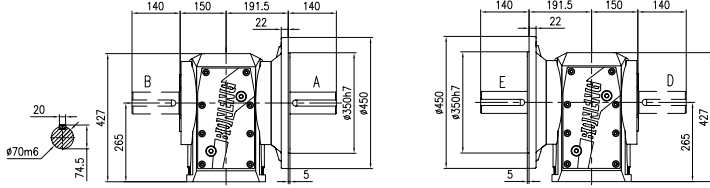
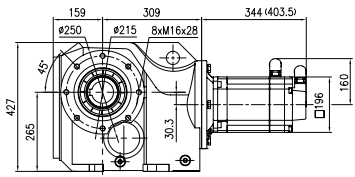
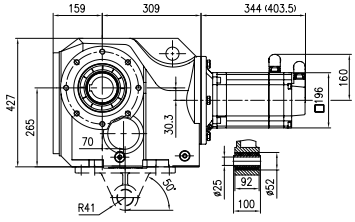
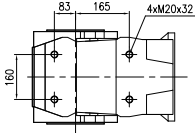
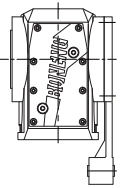


K308AK渐开线花键空心轴  
K308AL渐开线花键空心轴  
K308TK渐开线花键空心轴  
K308TL渐开线花键空心轴



控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C11-N(不带滤波器)  
或AX-PM26-B3C11-F(带滤波器)  
操作模块: A1-OP25

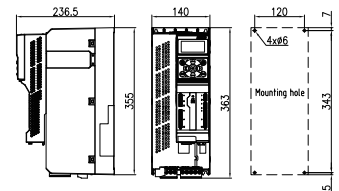
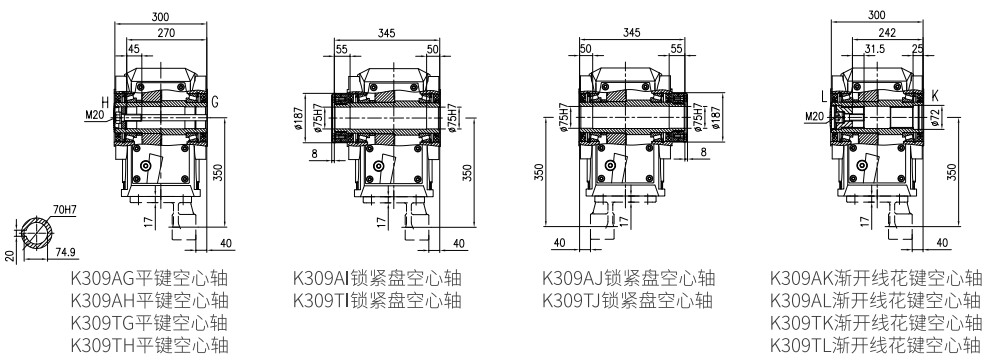
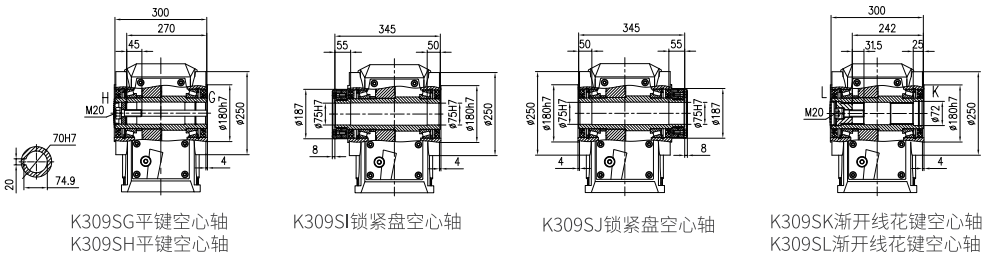
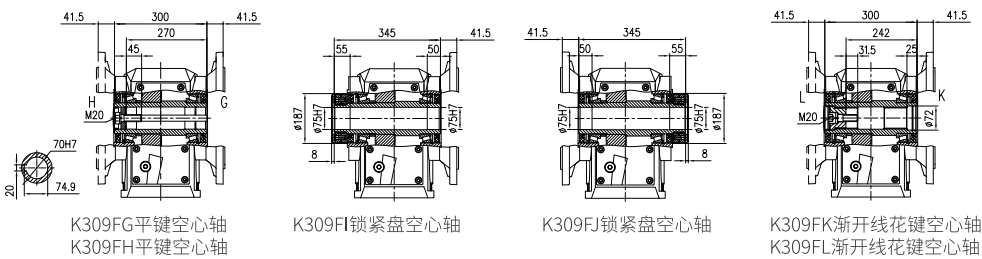
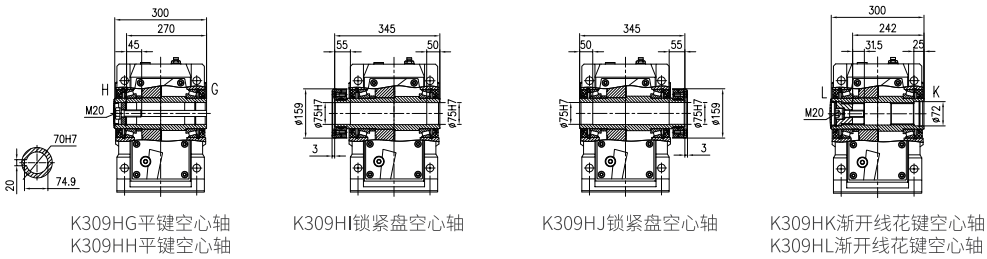


安装形式	K309-MX100M1E15FS0外形尺寸图(mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K309HA单向平键实心轴 K309HB单向平键实心轴 K309HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K309FA单向平键实心轴 K309FB单向平键实心轴 K309FC双向平键实心轴</p> <p>K309FD单向平键实心轴 K309FE单向平键实心轴 K309FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

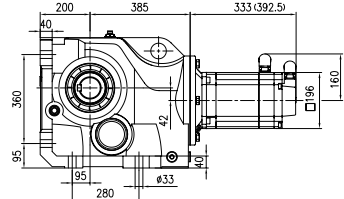
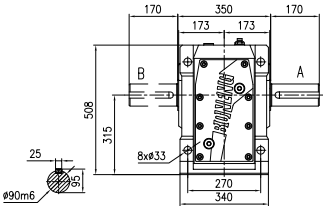
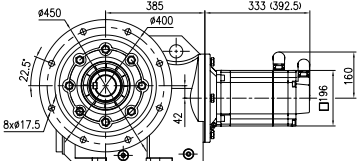
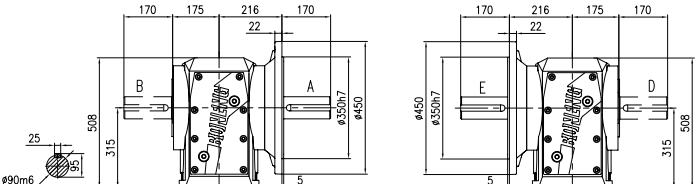
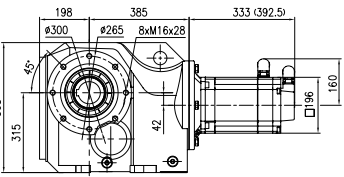
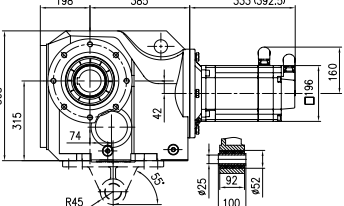
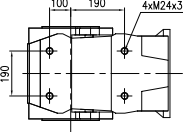
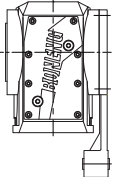
注:括号内为带制动器的伺服马达长度

## K309-MX100M1E15FS0外形尺寸图(mm)

## 所配伺服驱动器外形尺寸图



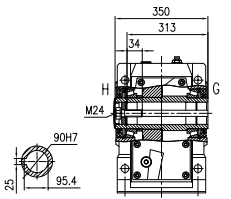
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C11-N(不带滤波器)  
或AX-PM26-B3C11-F(带滤波器)  
操作模块: A1-OP25

安装形式	K310-MX100M1E15FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K310HA单向平键实心轴 K310HB单向平键实心轴 K310HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K310FA单向平键实心轴 K310FB单向平键实心轴 K310FC双向平键实心轴</p> <p>K310FD单向平键实心轴 K310FE单向平键实心轴 K310FF双向平键实心轴</p>	
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

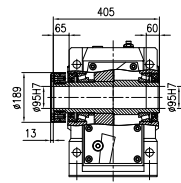
注:括号内为带制动器的伺服马达长度

## K310-MX100M1E15FS0外形尺寸图(mm)

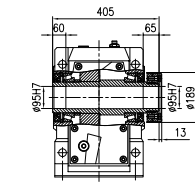
## 所配伺服驱动器外形尺寸图



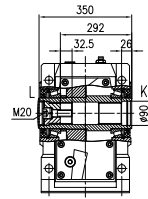
K310HG平键空心轴  
K310HH平键空心轴



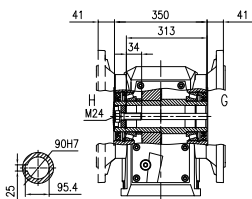
K310HI锁紧盘空心轴



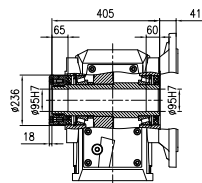
K310HJ锁紧盘空心轴



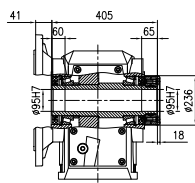
K310HK渐开线花键空心轴  
K310HL渐开线花键空心轴



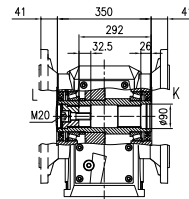
K310FG平键空心轴  
K310FH平键空心轴



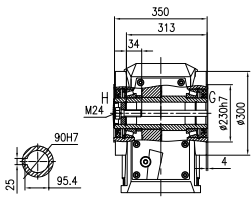
K310FI锁紧盘空心轴



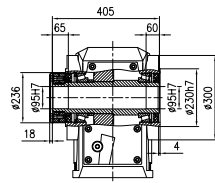
K310FJ锁紧盘空心轴



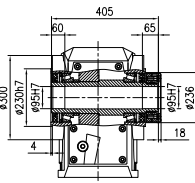
K310FK渐开线花键空心轴  
K310FL渐开线花键空心轴



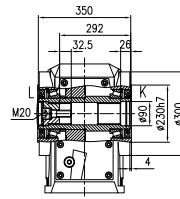
K310SG平键空心轴  
K310SH平键空心轴



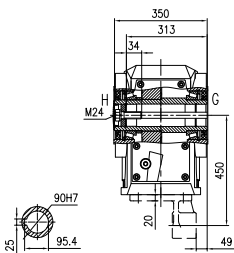
K310SI锁紧盘空心轴



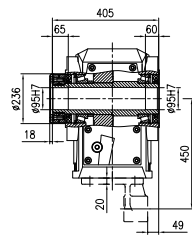
K310SJ锁紧盘空心轴



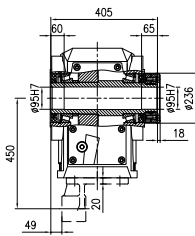
K310SK渐开线花键空心轴  
K310SL渐开线花键空心轴



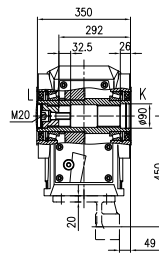
K310AG平键空心轴  
K310AH平键空心轴  
K310TG平键空心轴  
K310TH平键空心轴



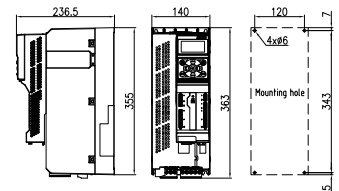
K310AI锁紧盘空心轴  
K310TI锁紧盘空心轴



K310AJ锁紧盘空心轴  
K310TJ锁紧盘空心轴



K310AK渐开线花键空心轴  
K310AL渐开线花键空心轴  
K310TK渐开线花键空心轴  
K310TL渐开线花键空心轴



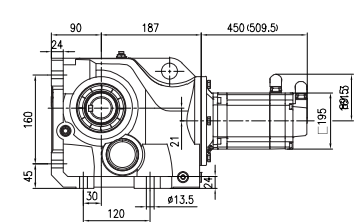
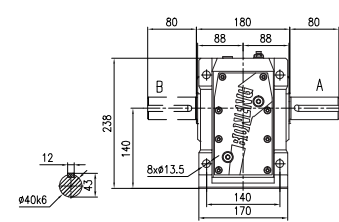
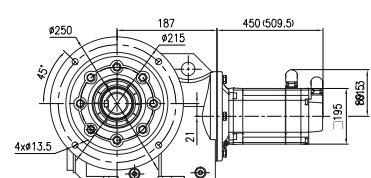
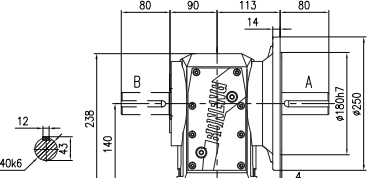
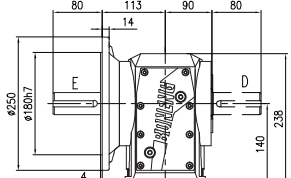
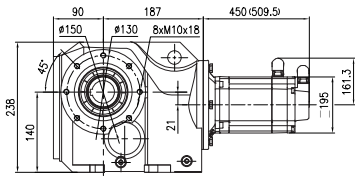
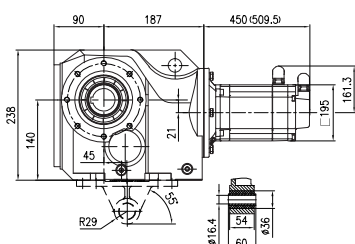
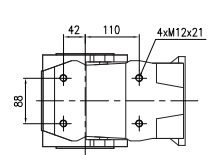
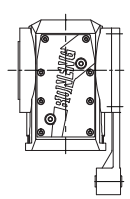
控制模块: AX-CM55-PA-PE(ProfiNet)  
或AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C11-N(不带滤波器)  
或AX-PM26-B3C11-F(带滤波器)  
操作模块: A1-OP25

### 伺服马达：9.11kW 58Nm 18.4A-1500r/min

齿轮箱实际 输出转速	齿轮箱实际 输出扭矩	齿轮箱公称 减速比代号	齿轮箱公称 减速比	齿轮箱精确 减速比	齿轮箱 齿数比	齿轮箱额定 输出扭矩	齿轮箱 转动惯量	齿轮箱 背隙	齿轮箱 服务系数
$n_{2N}$ (r/min)	T2 (N.m)	Code	$i_N$	$i_{ex}$	$i_z$	$T_{2N}$	$J \cdot 10^{-4}$ (kg.m <sup>2</sup> )	$\Phi$ (°)	f
357	244	B40	4	4.2	3355/798	680	15	18	2.79
311	280	B45	4.5	4.82	71126/14763	680	12	17	2.43
292	298	B50	5	5.14	36905/7182	700	10	17	2.35
268	324	B56	5.6	5.59	352/63	730	12	14	2.25
249	349	B63	6.3	6.02	915/152	750	10	15	2.15
217	400	B71	7.1	6.9	9699/1406	750	8.1	15	1.88
188	464	B80	8	8	8/1	750	8.9	12	1.62
219	398	B71	7.1	6.86	391/57	1300	25	13	3.27
192	453	B80	8	7.81	1632/209	1300	20	13	2.87
173	502	B90	9	8.66	5100/589	1300	17	13	2.59
151	576	C10	10	9.93	1887/190	1300	14	13	2.26
134	650	C11	11.2	11.2	7854/703	1300	11	12	2
125	696	C13	12.5	12	1081/90	1380	20	9	1.98
109	795	C14	14	13.7	752/55	1550	16	9	1.95
98.7	882	C16	16	15.2	470/31	1650	14	9	1.87
86.2	1009	C18	18	17.4	1739/100	1650	11	9	1.64
76.5	1137	C20	20	19.6	3619/185	1650	9.1	9	1.45
94.3	922	C16	16	15.9	7575/476	2600	29	7	2.82
81.1	1073	C18	18	18.5	80295/4352	2600	24	7	2.42
74.6	1166	C20	20	20.1	32825/1632	2600	21	7	2.23
66.4	1311	C22	22.4	22.6	33835/1496	2850	17	7	2.17
60.5	1438	C25	25	24.8	104535/4216	3000	20	7	2.09
52.4	1659	C28	28	28.6	13635/476	3000	16	7	1.81
49.2	1769	C32	31.5	30.5	7575/248	3000	15	7	1.70
53.8	1618	C28	28	27.9	47771/1710	5000	55	7	3.09
47.9	1815	C32	31.5	31.3	8924/285	5000	47	7	2.75
43.5	2001	C36	35.5	34.5	69/2	5000	102	6	2.5
39.7	2192	C40	40	37.8	3588/95	5000	93	6	2.28
33.6	2587	C45	45	44.6	759/17	5000	77	6	1.93
30	2900	C50	50	50	2001/40	5000	71	6	1.72
28.1	3097	C56	56	53.4	1656/31	5000	66	6	1.61
30.4	2865	C50	50	49.4	938/19	8500	139	6	2.97
26	3341	C56	56	57.6	980/17	9000	116	6	2.69
23.5	3706	C63	63	63.9	511/8	9000	107	6	2.43
22.2	3927	C71	71	67.7	2100/31	9000	99	6	2.29
19.5	4466	C80	80	77	77/1	9000	84	6	2.02
17.4	5000	C90	90	86.2	1120/13	9000	74	6	1.8
15.7	5551	D10	100	95.7	287/3	9000	65	6	1.62

注：启停次数≤60次/小时，服务系数f推荐1.5；启停次数≤120次/小时，服务系数f推荐1.75；启停次数>120次/小时，服务系数f推荐2以上；

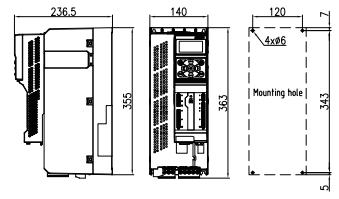
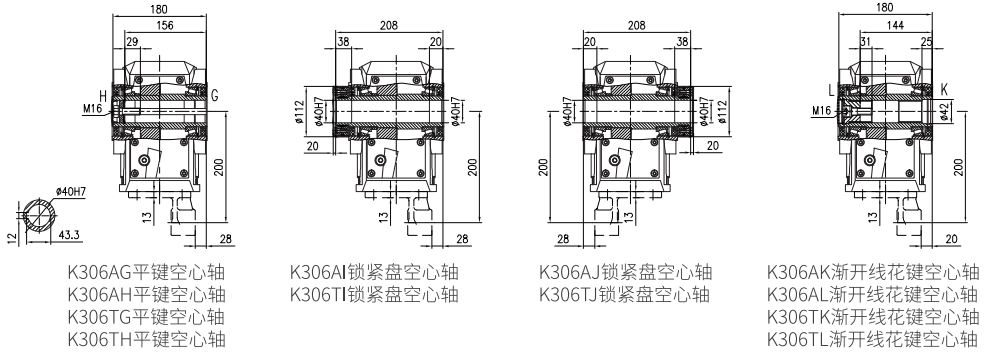
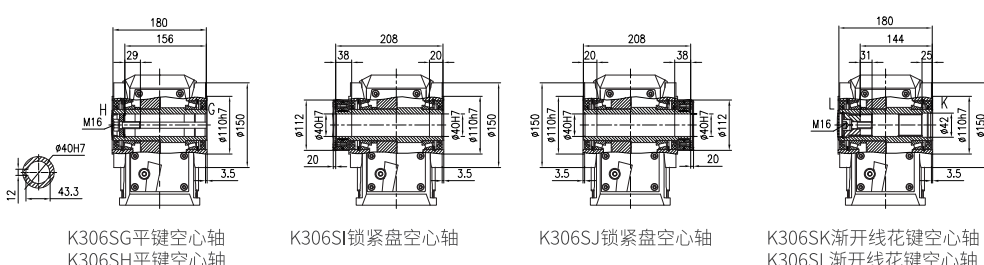
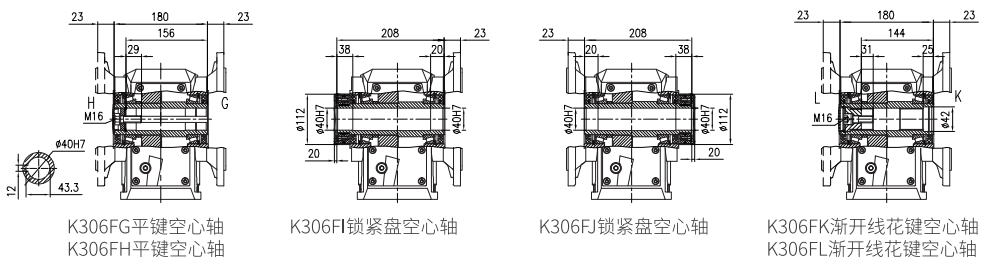
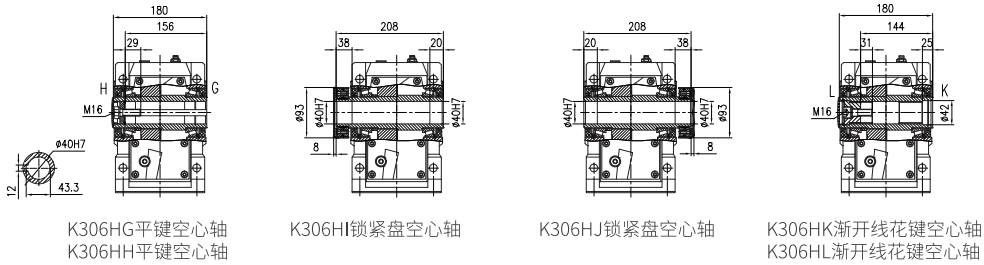
伺服齿轮马达订货号	伺服驱动器订货号			线缆配置订货号		制动电阻订货号
	控制模块	功率模块	操作面板	伺服马达动力线	伺服马达信号线	
K306□□-B40-D□□□-MX100L1E15FS0	AX-CM55-□□-PE PA: PROFINET 通讯 EA: EtherCAT 通讯	AX-PM26-B3C15-□ N: 不带滤波器 F: 带滤波器	A1-OP25	A1-H□□-A40-□□□ 18: 无制动器 16: 带制动器 动力线长度B30: 3m B50: 5m B70: 7m C10: 10m C15: 15m C20: 20m	A1-H17-A10-□□□ 信号线长度B30: 3m B50: 5m B70: 7m C10: 10m C15: 15m C20: 20m	A1-H02-B50-K-C36
K306□□-B45-D□□□-MX100L1E15FS0						
K306□□-B50-D□□□-MX100L1E15FS0						
K306□□-B56-D□□□-MX100L1E15FS0						
K306□□-B63-D□□□-MX100L1E15FS0						
K306□□-B71-D□□□-MX100L1E15FS0						
K306□□-B80-D□□□-MX100L1E15FS0						
K307□□-B71-D□□□-MX100L1E15FS0						
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K307□□-B90-D□□□-MX100L1E15FS0						
K307□□-C10-D□□□-MX100L1E15FS0						
K307□□-C11-D□□□-MX100L1E15FS0						
K307□□-C13-D□□□-MX100L1E15FS0						
K307□□-C14-D□□□-MX100L1E15FS0						
K307□□-C16-D□□□-MX100L1E15FS0						
K307□□-C18-D□□□-MX100L1E15FS0						
K307□□-C20-D□□□-MX100L1E15FS0						
K308□□-C16-D□□□-MX100L1E15FS0						
K308□□-C18-D□□□-MX100L1E15FS0						
K308□□-C20-D□□□-MX100L1E15FS0						
K308□□-C22-D□□□-MX100L1E15FS0						
K308□□-C25-D□□□-MX100L1E15FS0						
K308□□-C28-D□□□-MX100L1E15FS0						
K308□□-C32-D□□□-MX100L1E15FS0						
K309□□-C28-D□□□-MX100L1E15FS0						
K309□□-C32-D□□□-MX100L1E15FS0						
K309□□-C36-D□□□-MX100L1E15FS0						
K309□□-C40-D□□□-MX100L1E15FS0						
K309□□-C45-D□□□-MX100L1E15FS0						
K309□□-C50-D□□□-MX100L1E15FS0						
K309□□-C56-D□□□-MX100L1E15FS0						
K310□□-C50-D□□□-MX100L1E15FS0						
K310□□-C56-D□□□-MX100L1E15FS0						
K310□□-C63-D□□□-MX100L1E15FS0						
K310□□-C71-D□□□-MX100L1E15FS0						
K310□□-C80-D□□□-MX100L1E15FS0						
K310□□-C90-D□□□-MX100L1E15FS0						
K310□□-D10-D□□□-MX100L1E15FS0						

安装形式	K306-MX100L1E15FS0外形尺寸图 (mm)		
<p style="text-align: center;">底脚安装</p>	 <p style="text-align: center;">底脚安装H</p>	 <p style="text-align: center;">K306HA单向平键实心轴 K306HB单向平键实心轴 K306HC双向平键实心轴</p>	
<p style="text-align: center;">法兰安装</p>	 <p style="text-align: center;">法兰安装F</p>	 <p style="text-align: center;">K306FA单向平键实心轴 K306FB单向平键实心轴 K306FC双向平键实心轴</p>	 <p style="text-align: center;">K306FD单向平键实心轴 K306FE单向平键实心轴 K306FF双向平键实心轴</p>
<p style="text-align: center;">小法兰安装</p>	 <p style="text-align: center;">小法兰安装S</p>		
<p style="text-align: center;">轴装式安装</p>	 <p style="text-align: center;">带底面扭力臂附件安装T</p>	 <p style="text-align: center;">轴装式安装A</p>	 <p style="text-align: center;">带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

注: 括号内为带制动器的伺服马达长度

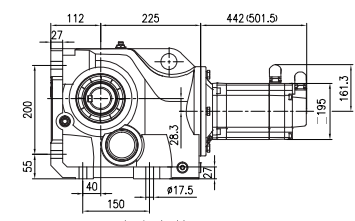
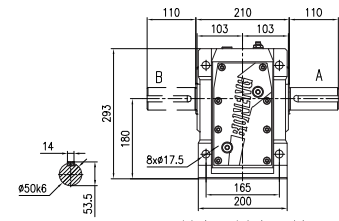
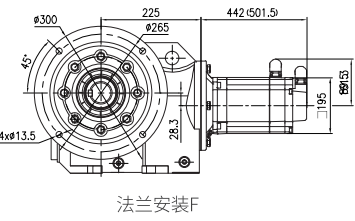
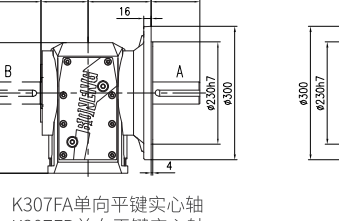
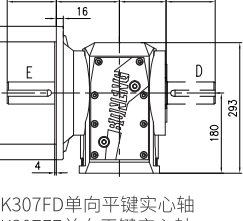
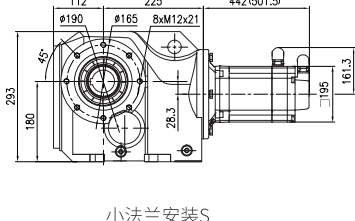
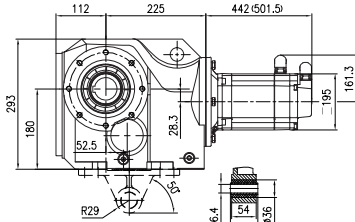
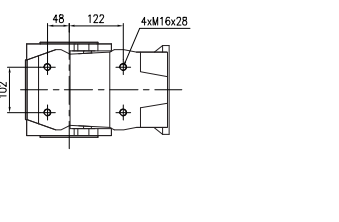
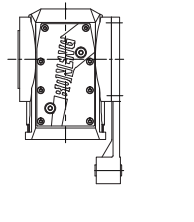
## K306-MX100L1E15FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
 或 AX-CM55-EA-PE(EtherCAT)  
 功率模块: AX-PM26-B3C15-N(不带滤波器)  
 或 AX-PM26-B3C15-F(带滤波器)  
 操作模块: A1-OP25

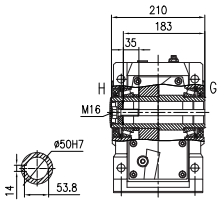


安装形式	K307-MX100L1E15FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K307HA单向平键实心轴 K307HB单向平键实心轴 K307HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K307FA单向平键实心轴 K307FB单向平键实心轴 K307FC双向平键实心轴</p>	 <p>K307FD单向平键实心轴 K307FE单向平键实心轴 K307FF双向平键实心轴</p>
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装 轴装式安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>	 <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

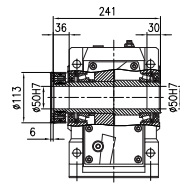
注:括号内为带制动器的伺服马达长度

## K307-MX100L1E15FS0外形尺寸图 (mm)

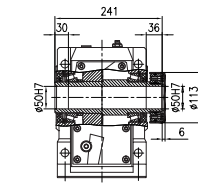
## 所配伺服驱动器外形尺寸图



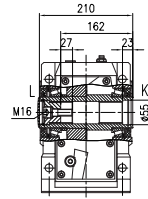
K307HG平键空心轴  
K307HH平键空心轴



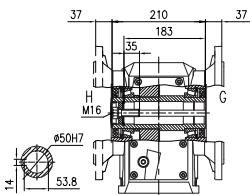
K307HI锁紧盘空心轴



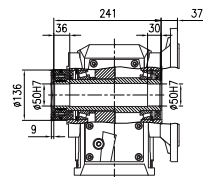
K307HJ锁紧盘空心轴



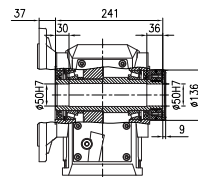
K307HK渐开线花键空心轴  
K307HL渐开线花键空心轴



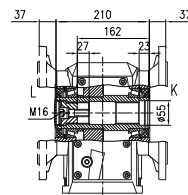
K307FG平键空心轴  
K307FH平键空心轴



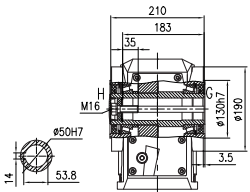
K307FI锁紧盘空心轴



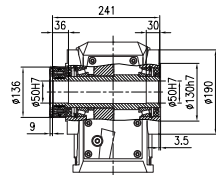
K307FJ锁紧盘空心轴



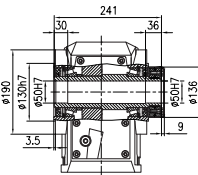
K307FK渐开线花键空心轴  
K307FL渐开线花键空心轴



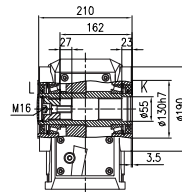
K307SG平键空心轴  
K307SH平键空心轴



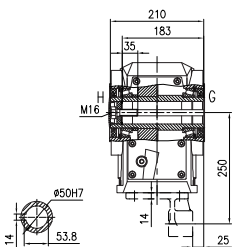
K307SI锁紧盘空心轴



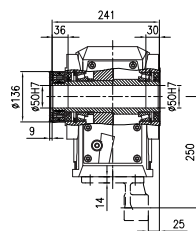
K307SJ锁紧盘空心轴



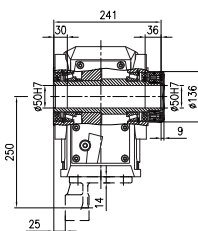
K307SK渐开线花键空心轴  
K307SL渐开线花键空心轴



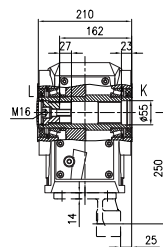
K307AG平键空心轴  
K307AH平键空心轴  
K307TG平键空心轴  
K307TH平键空心轴



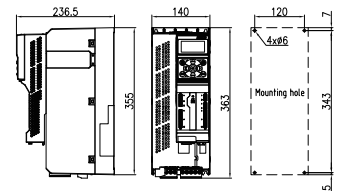
K307AI锁紧盘空心轴  
K307TI锁紧盘空心轴



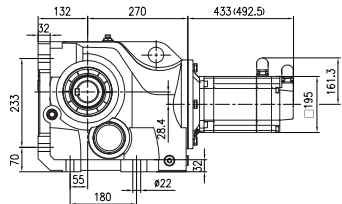
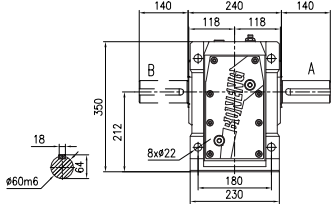
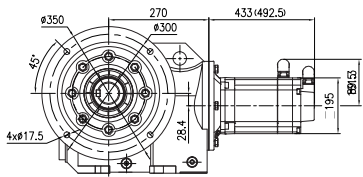
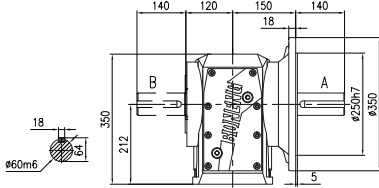
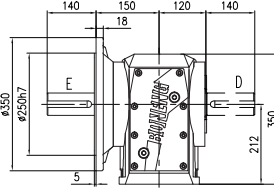
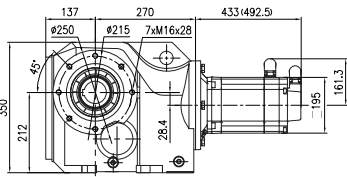
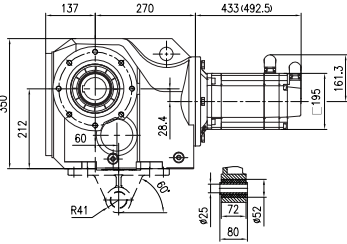
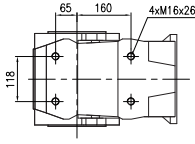
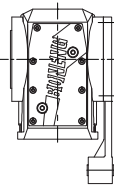
K307AJ锁紧盘空心轴  
K307TJ锁紧盘空心轴



K307AK渐开线花键空心轴  
K307AL渐开线花键空心轴  
K307TK渐开线花键空心轴  
K307TL渐开线花键空心轴



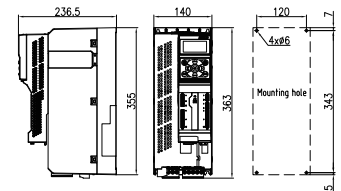
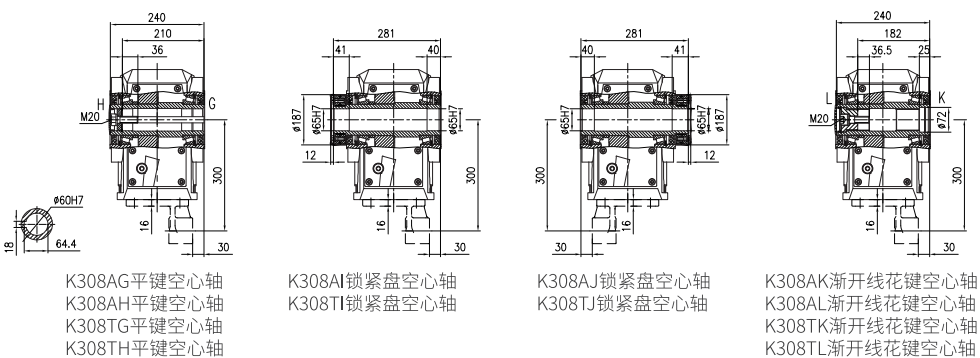
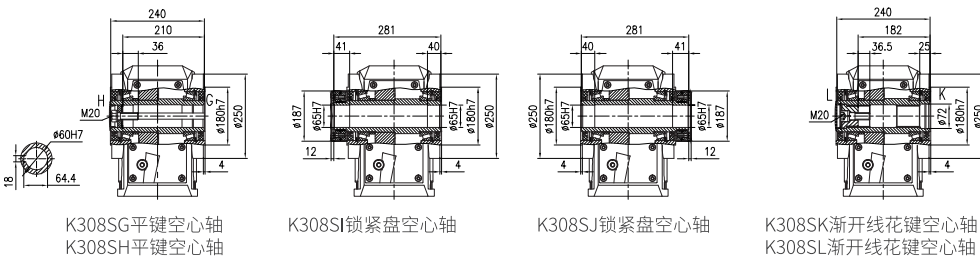
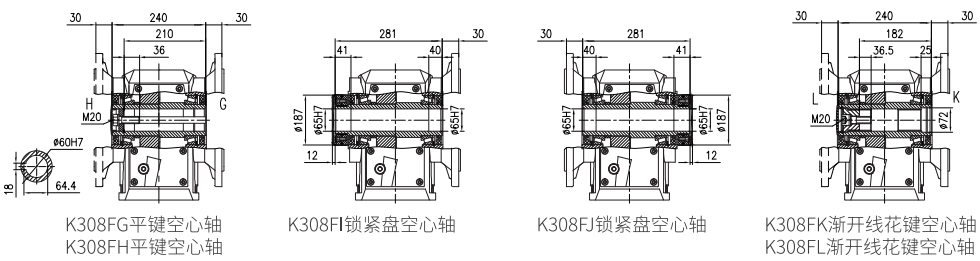
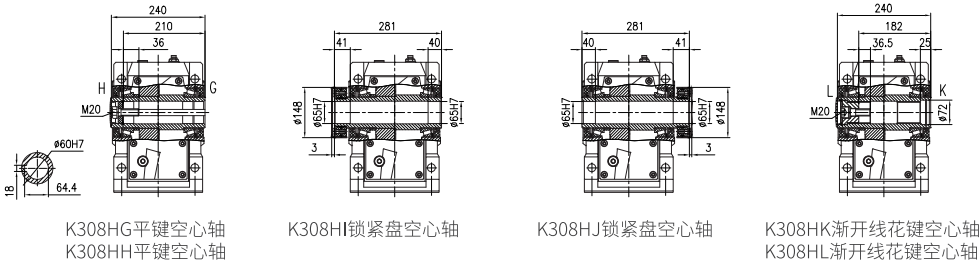
控制模块: AX-CM55-PA-PE(ProfiNet)  
或 AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C15-N(不带滤波器)  
或 AX-PM26-B3C15-F(带滤波器)  
操作模块: A1-OP25

安装形式	K308-MX100L1E15FS0外形尺寸图 (mm)		
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K308HA单向平键实心轴 K308HB单向平键实心轴 K308HC双向平键实心轴</p>	
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K308FA单向平键实心轴 K308FB单向平键实心轴 K308FC双向平键实心轴</p>	 <p>K308FD单向平键实心轴 K308FE单向平键实心轴 K308FF双向平键实心轴</p>
<p>小法兰安装</p>	 <p>小法兰安装S</p>		
<p>带扭力臂附件安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>	 <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

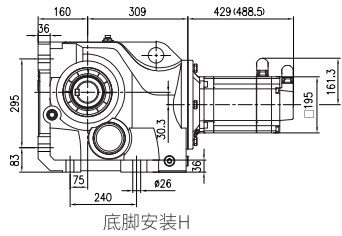
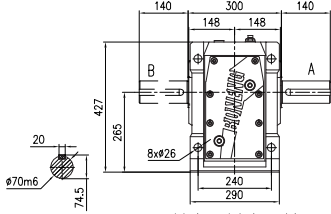
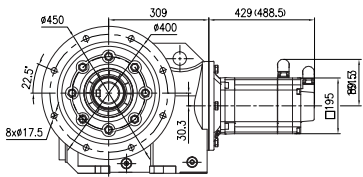
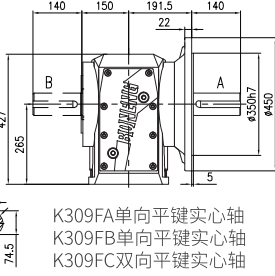
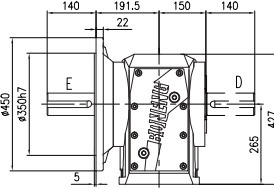
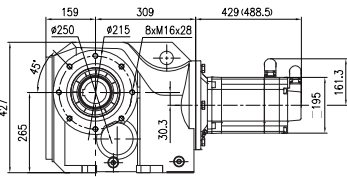
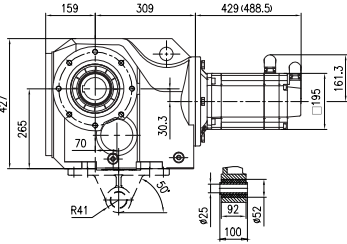
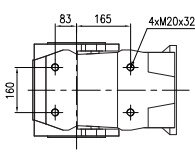
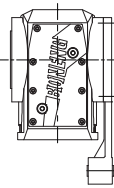
注:括号内为带制动器的伺服马达长度

## K308-MX100L1E15FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



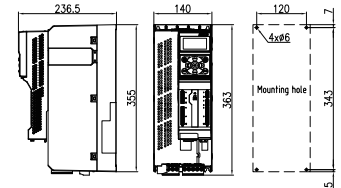
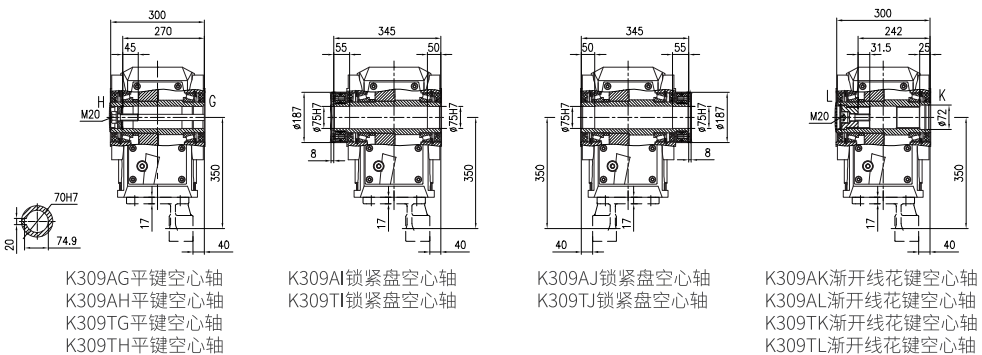
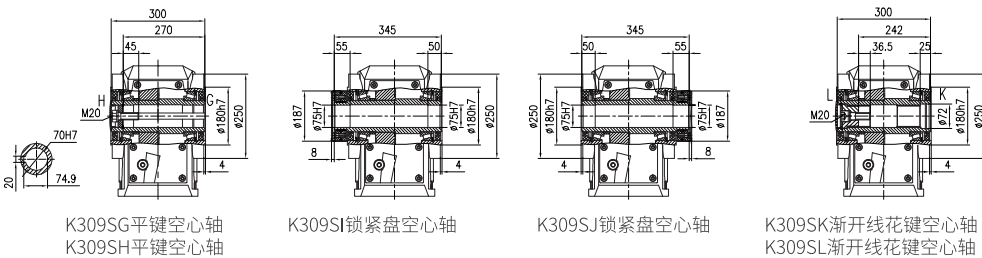
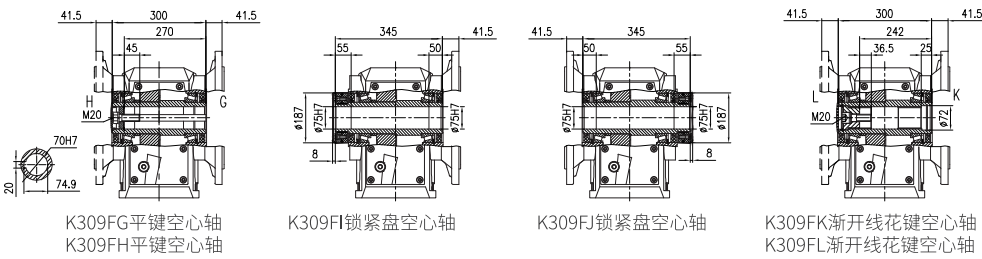
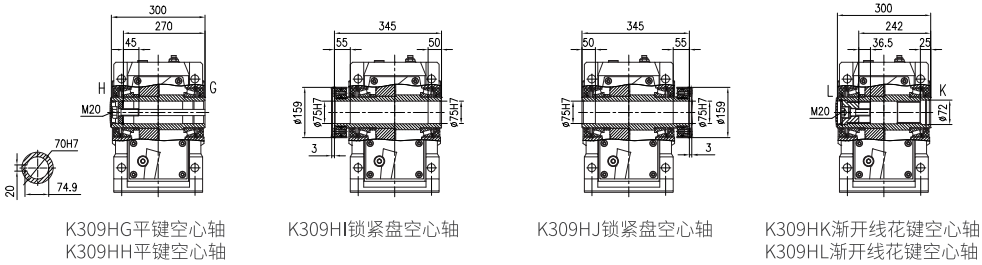
控制模块: AX-CM55-PA-PE(ProfiNet)  
 或 AX-CM55-EA-PE(EtherCAT)  
 功率模块: AX-PM26-B3C15-N(不带滤波器)  
 或 AX-PM26-B3C15-F(带滤波器)  
 操作模块: A1-OP25

安装形式	K309-MX100L1E15FS0外形尺寸图 (mm)		
底脚安装  <p>底脚安装H</p>	 <p>K309HA单向平键实心轴 K309HB单向平键实心轴 K309HC双向平键实心轴</p>		
法兰安装  <p>法兰安装F</p>	 <p>K309FA单向平键实心轴 K309FB单向平键实心轴 K309FC双向平键实心轴</p>	 <p>K309FD单向平键实心轴 K309FE单向平键实心轴 K309FF双向平键实心轴</p>	
小法兰安装  <p>小法兰安装S</p>			
带扭力臂附件安装 轴装式安装	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>	

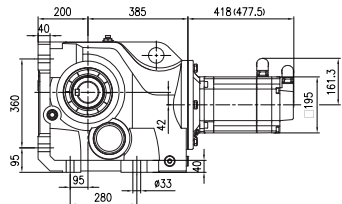
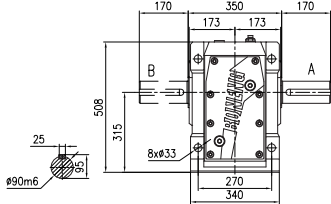
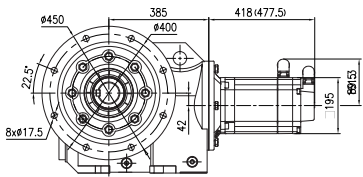
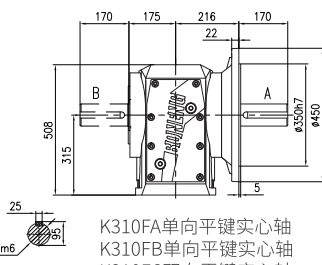
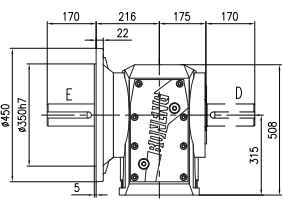
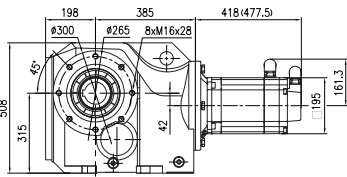
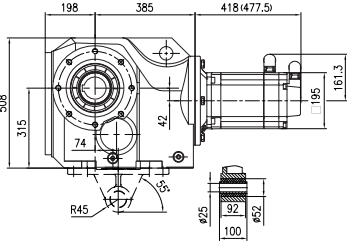
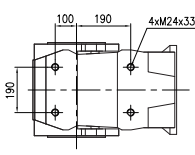
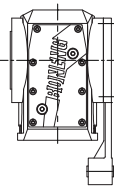
注:括号内为带制动器的伺服马达长度

## K309-MX100L1E15FS0外形尺寸图 (mm)

## 所配伺服驱动器外形尺寸图



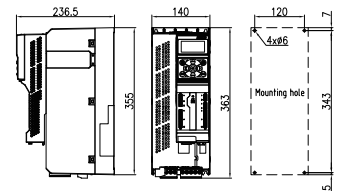
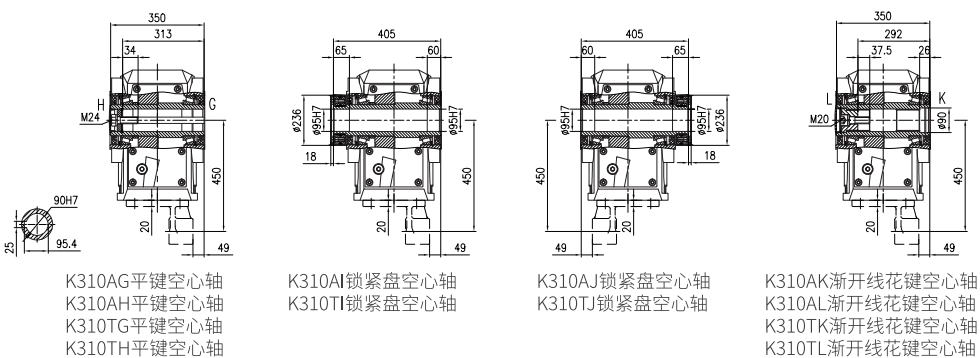
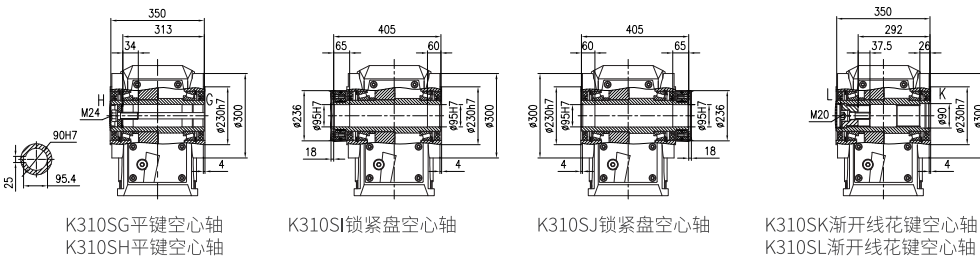
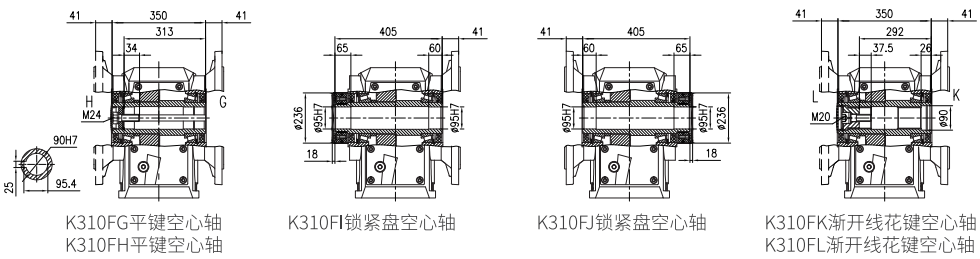
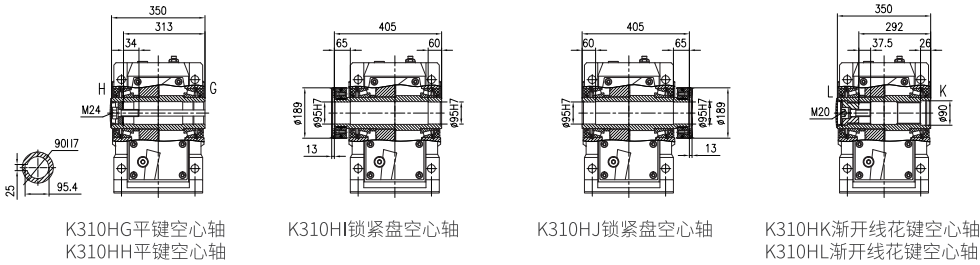
控制模块: AX-CM55-PA-PE(ProfiNet)  
或 AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C15-N(不带滤波器)  
或 AX-PM26-B3C15-F(带滤波器)  
操作模块: A1-OP25

安装形式	K310-MX100L1E15FS0外形尺寸图 (mm)	
<p>底脚安装</p>	 <p>底脚安装H</p>	 <p>K310HA单向平键实心轴 K310HB单向平键实心轴 K310HC双向平键实心轴</p>
<p>法兰安装</p>	 <p>法兰安装F</p>	 <p>K310FA单向平键实心轴 K310FB单向平键实心轴 K310FC双向平键实心轴</p>  <p>K310FD单向平键实心轴 K310FE单向平键实心轴 K310FF双向平键实心轴</p>
<p>小法兰安装</p>	 <p>小法兰安装S</p>	
<p>带扭力臂附件安装</p>	 <p>带底面扭力臂附件安装T</p>	 <p>轴装式安装A</p>  <p>带侧面扭力臂附件安装M 尺寸详见外形尺寸图-补充</p>

注: 括号内为带制动器的伺服马达长度

## K310-MX100L1E15FS0外形尺寸图 (mm)

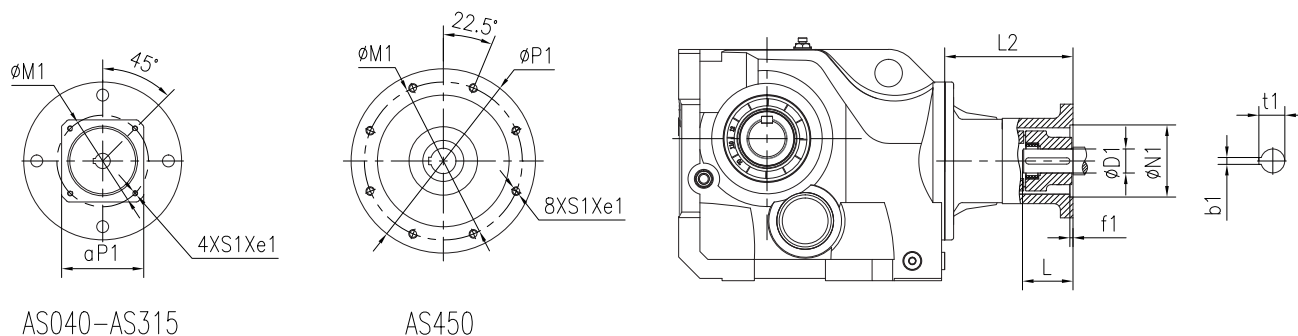
## 所配伺服驱动器外形尺寸图



控制模块: AX-CM55-PA-PE(ProfiNet)  
或 AX-CM55-EA-PE(EtherCAT)  
功率模块: AX-PM26-B3C15-N(不带滤波器)  
或 AX-PM26-B3C15-F(带滤波器)  
操作模块: A1-OP25



## 5.AS输入法兰尺寸



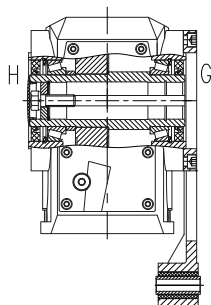
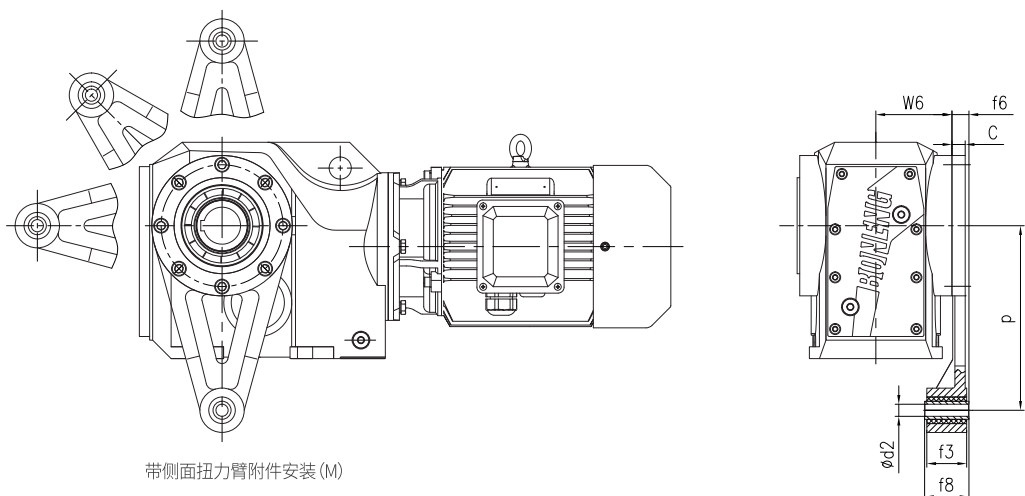
AS040-AS315

AS450

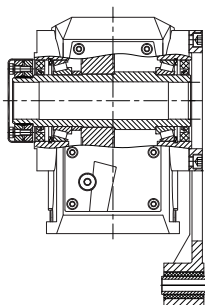
规格	法兰型号	适用速比范围	e1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2
K303	AS040	4-100	4	8H7	30H7	46	78	4	2	9	25	M4	70
	AS055	4-100	4	9H7	40H7	63	78	4	3	10.4	25	M5	70
	AS060	4-100	10	14H7	50H7	70	60	4	5	16.3	30	M5	114
	AS070	4-100	10	14H7	60H7	75	70	4	5	16.3	30	M5	114
	AS080	4-100	10	19H7	70H7	90	80	4	6	21.8	35	M6	120
	AS090	4-100	10	19H7	80H7	100	90	4	6	21.8	40	M6	125
	AS100	4-56	14	19H7	95H7	115	100	4	6	21.8	45	M8	122
K304	AS125	4-56	15	24H7	110H7	130	130	5	8	27	50	M8	133
	AS140	4-56	15	24H7	110H7	145	130	6.5	8	27	55	M8	133
	AS060	4-125	10	14H7	50H7	70	60	4	5	16.3	30	M5	116
	AS070	4-125	10	14H7	60H7	75	70	4	5	16.3	30	M5	116
	AS080	4-125	10	19H7	70H7	90	80	4	6	21.8	35	M6	122
	AS090	4-125	10	19H7	80H7	100	90	4	6	21.8	40	M6	127
	AS100	4-80	14	19H7	95H7	115	100	4	6	21.8	45	M8	124
K305	AS125	4-80	15	24H7	110H7	130	130	5	8	27	50	M8	135
	AS140	4-80	15	24H7	110H7	145	130	6.5	8	27	55	M8	135
	AS160	4-80	15	32H7	130H7	165	155	5	10	35.3	60	M10	190
	AS060	4-112	10	14H7	50H7	70	60	4	5	16.3	30	M5	116
	AS070	4-112	10	14H7	60H7	75	70	4	5	16.3	30	M5	116
	AS080	4-112	10	19H7	70H7	90	80	4	6	21.8	35	M6	122
	AS090	4-112	10	19H7	80H7	100	90	4	6	21.8	40	M6	127
K306	AS100	4-63	14	19H7	95H7	115	100	4	6	21.8	45	M8	124
	AS125	4-63	15	24H7	110H7	130	130	5	8	27	50	M8	135
	AS140	4-63	15	24H7	110H7	145	130	6.5	8	27	55	M8	135
	AS160	4-63	15	32H7	130H7	165	155	5	10	35.3	60	M10	190
	AS060	4-125	10	14H7	50H7	70	60	4	5	16.3	30	M5	116
	AS070	4-125	10	14H7	60H7	75	70	4	5	16.3	30	M5	116
	AS080	4-125	10	19H7	70H7	90	80	4	6	21.8	35	M6	122
K307	AS090	4-125	10	19H7	80H7	100	90	4	6	21.8	40	M6	127
	AS100	4-90	14	19H7	95H7	115	100	4	6	21.8	45	M8	124
	AS125	4-90	15	24H7	110H7	130	130	5	8	27	50	M8	135
	AS140	4-90	15	24H7	110H7	145	130	6.5	8	27	55	M8	135
	AS160	4-90	15	32H7	130H7	165	155	5	10	35.3	60	M10	190
	AS180	4-40	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	220
	AS190	4-40	18	38H7	180H7	215	190	6	10	41.3	80	M12	220
K307	AS060	7.1-180	10	14H7	50H7	70	60	4	5	16.3	30	M5	108
	AS070	7.1-180	10	14H7	60H7	75	70	4	5	16.3	30	M5	108
	AS080	7.1-180	10	19H7	70H7	90	80	4	6	21.8	35	M6	114
	AS090	7.1-180	10	19H7	80H7	100	90	4	6	21.8	40	M6	119
	AS100	7.1-112	14	19H7	95H7	115	100	4	6	21.8	45	M8	116
	AS125	7.1-112	15	24H7	110H7	130	130	5	8	27	50	M8	127
	AS140	7.1-112	15	24H7	110H7	145	130	6.5	8	27	55	M8	127
	AS160	7.1-112	15	32H7	130H7	165	155	5	10	35.3	60	M10	180
	AS180	7.1-50	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	210
	AS190	7.1-50	18	38H7	180H7	215	190	6	10	41.3	80	M12	210
AS240	7.1-50	28	38H7	230H7	265	240	5	10	41.3	80	M12	210	

规格	法兰型号	适用速比范围	e1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2
K308	AS070	90-180	10	14H7	60H7	75	70	4	5	16.3	30	M5	105
	AS080	90-180	10	19H7	70H7	90	80	4	6	21.8	35	M6	111
	AS090	90-180	10	19H7	80H7	100	90	4	6	21.8	40	M6	116
	AS100	7.1-160	14	19H7	95H7	115	100	4	6	21.8	45	M8	113
	AS125	7.1-160	15	24H7	110H7	130	130	5	8	27	50	M8	124
	AS140	7.1-160	15	24H7	110H7	145	130	6.5	8	27	55	M8	124
	AS160	7.1-160	15	32H7	130H7	165	155	5	10	35.3	60	M10	170
	AS180	7.1-80	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	203
	AS190	7.1-80	18	38H7	180H7	215	190	6	10	41.3	80	M12	203
	AS240	7.1-80	28	38H7	230H7	265	240	5	10	41.3	80	M12	203
AS260	7.1-80	40	48H7	250H7	300	260	6	14	51.8	110	M16	272	
K309	AS160	7.1-180	15	32H7	130H7	165	155	5	10	35.3	60	M10	171
	AS180	7.1-112	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	202
	AS190	7.1-112	18	38H7	180H7	215	190	6	10	41.3	80	M12	202
	AS240	7.1-112	28	38H7	230H7	265	240	5	10	41.3	80	M12	202
	AS260	7.1-112	40	48H7	250H7	300	260	6	14	51.8	110	M16	271
AS315	7.1-28	40	55H7	300H7	350	315	6	16	59.3	110	M16	327	
K310	AS160	8-180	15	32H7	130H7	165	155	5	10	35.3	60	M10	161
	AS180	8-125	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	189
	AS190	8-125	18	38H7	180H7	215	190	6	10	41.3	80	M12	189
	AS240	8-125	28	38H7	230H7	265	240	5	10	41.3	80	M12	189
	AS260	8-125	40	48H7	250H7	300	260	6	14	51.8	110	M16	258
AS315	8-100	40	55H7	300H7	350	315	6	16	59.3	110	M16	327	
K312	AS180	7.1-140	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	175
	AS190	7.1-140	18	38H7	180H7	215	190	6	10	41.3	80	M12	175
	AS240	7.1-140	28	38H7	230H7	265	240	5	10	41.3	80	M12	175
	AS260	7.1-140	40	48H7	250H7	300	260	6	14	51.8	110	M16	244
	AS315	7.1-112	40	55H7	300H7	350	315	6	16	59.3	110	M16	316
AS450	7.1-90	30	55H7	350H7	400	450	6	16	59.3	140	M16	343	
K315	AS260	10-140	40	48H7	250H7	300	260	6	14	51.8	110	M16	234
	AS315	10-112	40	55H7	300H7	350	315	6	16	59.3	110	M16	298
	AS450	10-90	30	55H7	350H7	400	450	6	16	59.3	140	M16	325
K316	AS260	10-160	40	48H7	250H7	300	260	6	14	51.8	110	M16	234
	AS315	10-112	40	55H7	300H7	350	315	6	16	59.3	110	M16	298
	AS450	10-90	30	55H7	350H7	400	450	6	16	59.3	140	M16	325
K318	AS260	71-160	40	48H7	250H7	300	260	6	14	51.8	110	M16	234
	AS315	10-140	40	55H7	300H7	350	315	6	16	59.3	110	M16	298
	AS450	10-112	30	55H7	350H7	400	450	6	16	59.3	140	M16	325

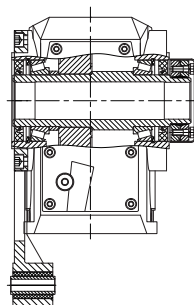
## 6. 外形尺寸图-补充(mm)



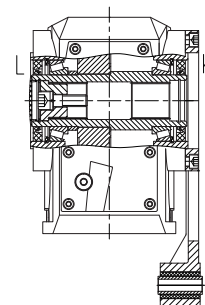
K3\*\*MG平键空心轴  
K3\*\*MH平键空心轴



K3\*\*MI锁紧盘空心轴



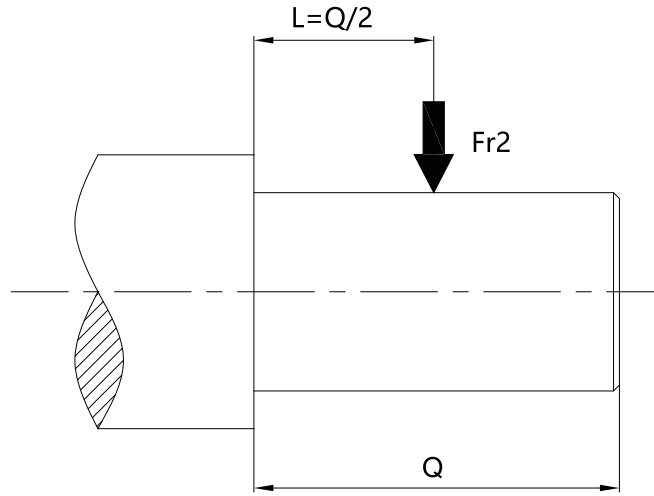
K3\*\*MJ锁紧盘空心轴



K3\*\*MK渐开线花键空心轴  
K3\*\*ML渐开线花键空心轴

规格	K303M	K304M	K305M	K306M	K307M	K308M	K309M	K310M
C	10	15	15	18	18	24	26	30
d2	10.4	10.4	16.4	16.4	16.4	25	25	25
f3	31	31	54	54	54	72	72	92
f6	15	20.5	18.5	22	32.5	28.5	33	50
f8	36	36	60	60	60	80	80	100
P	140	160	200	200	250	310	380	410
W6	58	73	81	88	103	118	148	173

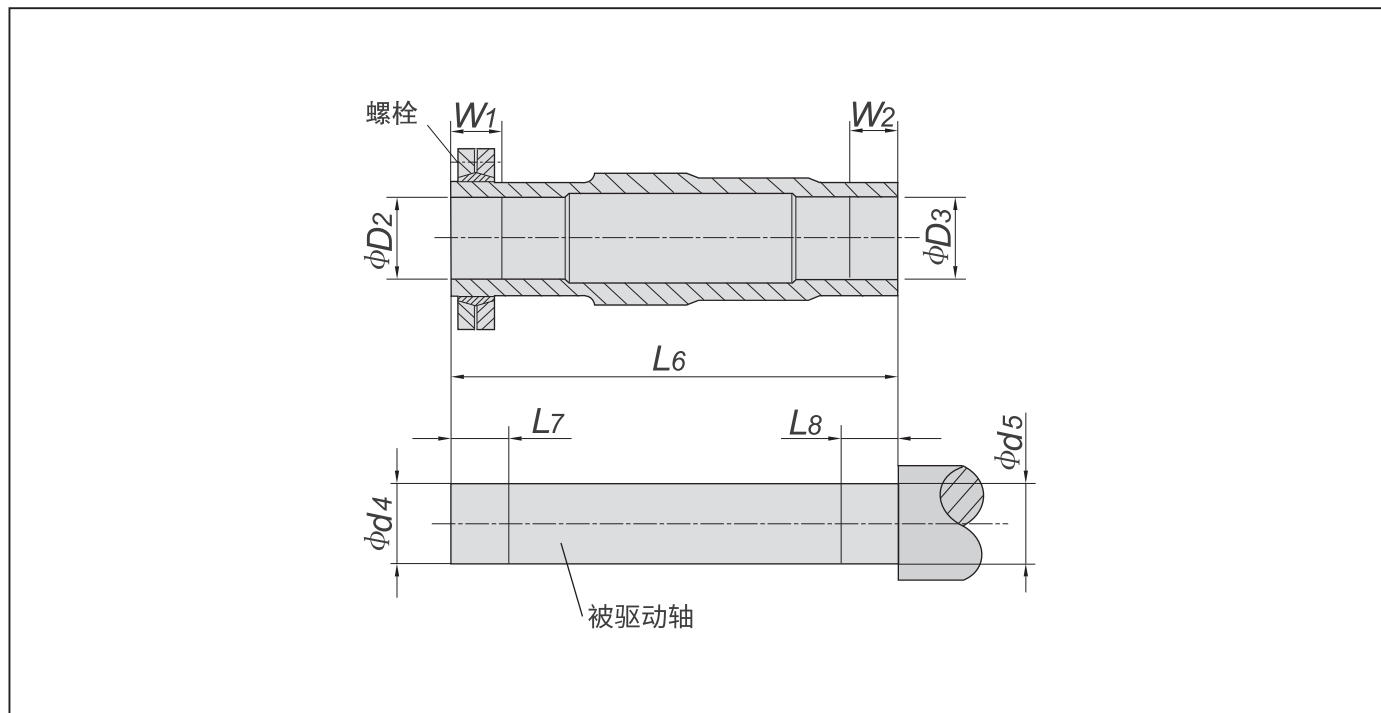
**7. 允许的输出轴径向力 Fr2(N)**



n <sub>2N</sub> (r/min)	Fr <sub>2</sub> (N)							
	K303	K304	K305	K306	K307	K308	K309	K310
315~425	1466	2430	4330	7715	/	/	/	/
280~315	1600	2650	4720	8410	/	/	/	/
225~280	1750	2890	5150	9165	/	/	/	/
160~225	1899	3150	5610	9990	11135	12150	14220	22140
140~160	2070	3240	5791	10350	12510	12780	14760	23220
125~140	2250	3510	6105	10620	12960	13410	14580	24300
112~125	2340	3348	6088	11070	13590	13320	14470	25200
90~112	2430	3510	6001	10260	13500	13770	15300	19710
80~90	2610	3807	6139	9900	14490	14670	16020	21240
71~80	2799	3960	6204	9720	14130	15120	17190	23490
63~71	2880	4239	6419	9720	13860	16110	18810	26010
56~63	2997	4500	6490	9360	13860	16200	19800	28800
50~56	3150	4770	6650	9270	13860	16650	20970	29700
45~50	3285	5040	6835	9270	13860	17280	22050	31500
35.5~45	3375	5328	7028	9270	13860	19260	23130	33300
31.5~35.5	3960	5328	7028	9270	13860	20520	25470	36450
28~31.5	4194	5328	7028	9270	13860	21150	27900	37980
25~28	4410	5328	7028	9270	13860	22500	29070	39960
22.4~25	4662	5328	7028	9270	13860	23580	30420	41220
20~22.4	4968	5328	7028	9270	13860	24570	32040	43200
18~20	5076	5328	7028	9270	13860	24570	33390	45450
16~18	5076	5328	7028	9270	13860	24570	34920	47700
≤16	5076	5328	7028	9270	13860	24570	36000	51300

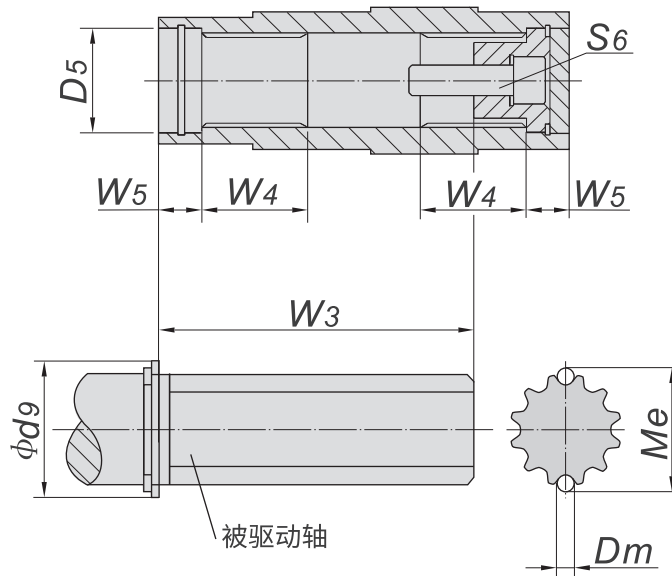
## 8.被驱动轴推荐尺寸 (mm)

### 8.1 锁紧盘



规格	D2	D3	d4	d5	L6	L7	L8	W1	W2	锁紧盘 型号	锁紧盘 螺栓	锁紧盘 重量 (kg)
K303	30H7	30H7	30h6	30h6	146	35	25	30	20	SP2-44×80	M6	0.6
K304	35H7	35H7	35h6	35h6	177	35	25	30	20	SP2-44×80	M6	0.6
K305	40H7	40H7	40h6	40h6	195	40	30	35	25	SP2-50×90	M6	0.8
K306	40H7	40H7	40h6	40h6	208	43	25	38	20	SP2-50×90	M6	0.8
K307	50H7	50H7	50h6	50h6	241	41	35	36	30	SP2-62×110	M6	1.3
K308	65H7	65H7	65h6	65h6	281	46	45	41	40	SP2-80×145	M8	1.9
K309	75H7	75H7	75h6	75h6	345	60	55	55	50	SP2-90×155	M8	3.3
K310	95H7	95H7	95h6	95h6	405	75	70	65	60	SP2-110×185	M10	5.9

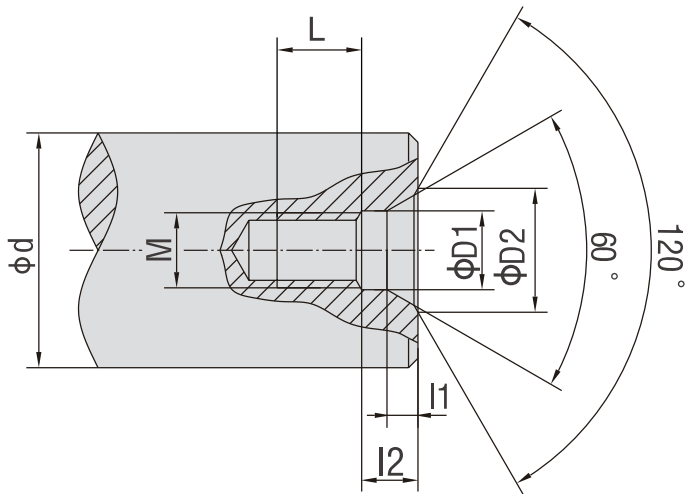
8.2 花键轴



规格	渐开线花键参数DIN5480 模数x齿数x压力角x大径x9H	D5	Dm	d9	Me	W3	W4	W5	S6
K303	1.25x22x30x30x9H	37	2.75	42	33.03	85	25	18	M10X30
K304	2x16x30x35x9H	37	4	42	38.92	115	32	18	M10X30
K305	2x16x30x35x9H	42	4	47	38.92	125	42	25	M16X40
K306	2x16x30x35x9H	42	4	47	38.92	140	42	25	M16X40
K307	2x24x30x50x9H	55	4	62	54.13	160	52	23	M16X50
K308	2x31x30x65x9H	72	4	82	68.96	180	62	25	M20X60
K309	2x34x30x70x9H	72	4	90	74.15	240	72	25	M20X60
K310	3x27x30x85x9H	90	6	105	91	290	89	26	M20X60

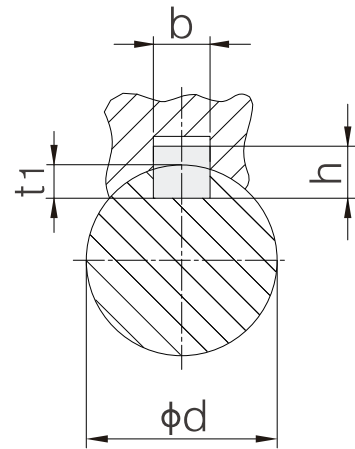
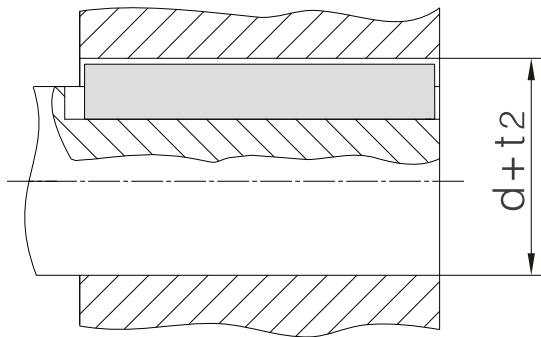
9.轴端中心孔尺寸(mm)

轴端C型螺纹中心孔



d	M	L	12	11	D1	D2
$7 < d \leq 10$	M3	10	2.6	1.8	3.2	5.8
$10 < d \leq 13$	M4	10	3.2	2.1	4.3	7.4
$13 < d \leq 16$	M5	10	4	2.4	5.3	8.8
$16 < d \leq 21$	M6	12	5	2.8	6.4	10.5
$21 < d \leq 24$	M8	12	6	3.3	8.4	13.2
$24 < d \leq 30$	M10	15	7.5	3.8	10.5	16.3
$30 < d \leq 38$	M12	20	9.5	4.4	13	19.8
$38 < d \leq 50$	M16	25	12	5.2	17	25.3
$50 < d \leq 85$	M20	30	15	6.4	21	31.3
$85 < d \leq 130$	M24	35	18	8	25	38
$130 < d \leq 225$	M30	45	18	11	31	48

**10.平键与键槽的尺寸(mm)**

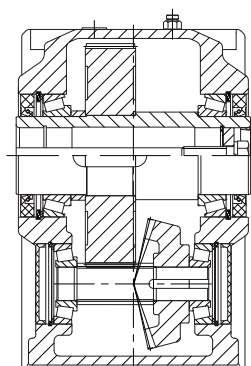
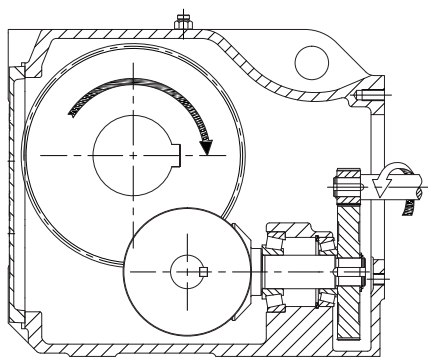


d	b	h	t <sub>1</sub>	d + t <sub>2</sub>
8 < d ≤ 10	3	3	1.8	d + 1.4
10 < d ≤ 12	4	4	2.5	d + 1.8
12 < d ≤ 17	5	5	3	d + 2.3
17 < d ≤ 22	6	6	3.5	d + 2.8
22 < d ≤ 30	8	7	4	d + 3.3
30 < d ≤ 38	10	8	5	d + 3.3
38 < d ≤ 44	12	8	5	d + 3.3
44 < d ≤ 50	14	9	5.5	d + 3.8
50 < d ≤ 58	16	10	6	d + 4.3
58 < d ≤ 65	18	11	7	d + 4.4
65 < d ≤ 75	20	12	7.5	d + 4.9
75 < d ≤ 85	22	14	9	d + 5.4
85 < d ≤ 95	25	14	9	d + 5.4
95 < d ≤ 110	28	16	10	d + 6.4
110 < d ≤ 130	32	18	11	d + 7.4
130 < d ≤ 150	36	20	12	d + 8.4
150 < d ≤ 170	40	22	13	d + 9.4
170 < d ≤ 200	45	25	15	d + 10.4
200 < d ≤ 230	50	28	17	d + 11.4
230 < d ≤ 260	56	32	20	d + 12.4



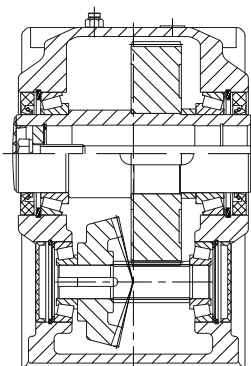
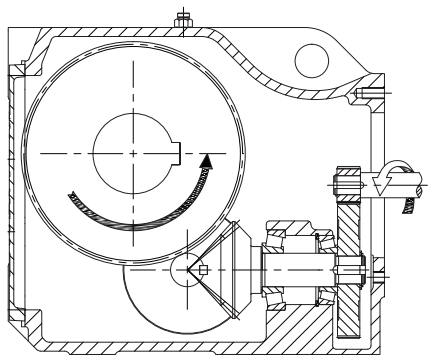
## 11. 可选附件和指定配置

### 11.1 齿轮常规安装



常规供货无需说明

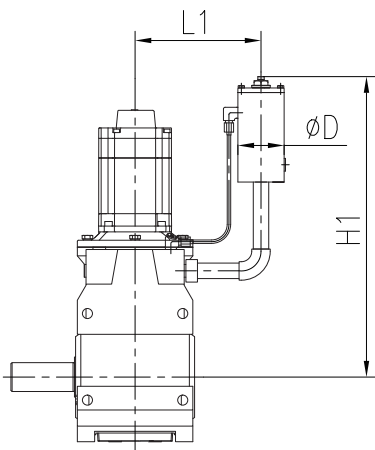
### 11.2 齿轮非常规安装 (代号1)



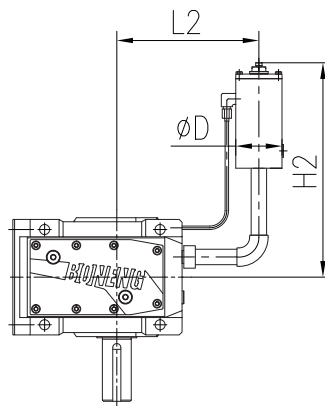
### 11.3 补偿油箱（代号6）

齿轮马达在以下工况时建议采用补偿油箱浸油润滑。

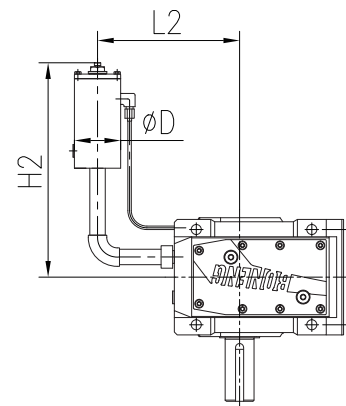
1. 在安装方位为D4且长时间连续运转时，建议采用补偿邮箱浸油润滑。
2. 在安装方位为D5/D6，输出转速 $n_2 \leq 15r/min$ 且长时间连续运转时，建议采用补偿油箱浸油润滑。



安装方位：D4



安装方位：D5



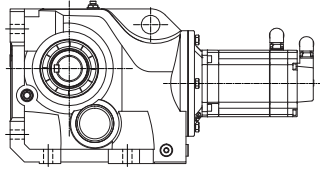
安装方位：D6

规格	D	L1	H1	L2	H2
K303	42	100	315	170	165
K304	42	115	340	175	170
K305	42	120	345	190	165
K306	42	120	345	200	170
K307	80	160	520	290	270
K308	80	175	585	315	275
K309	80	200	595	340	290
K310	120	270	750	405	405

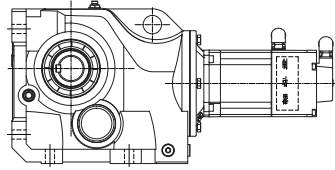
**12. 润滑油(L)**

安装方位 型号	D1	D2	D3	D4	D5	D6
K303	0.8	0.8	0.7	0.9	0.8	0.8
K304	1.2	1.1	1.2	1.6	1.3	1.3
K305	2.2	1.7	1.2	2.5	2.1	2.1
K306	2.2	1.6	1.6	2.6	1.9	1.9
K307	2.9	3.9	3.1	5.4	4.5	4.5
K308	5.2	6.6	8	10	8	8
K309	11	12	15	19	15	15
K310	17	21	25	33	25	24

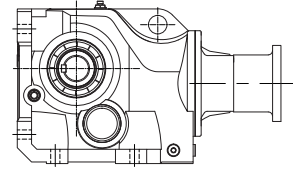
**13.重量表**



K303~K310+ 伺服马达 (不带制动器)



K303~K310+ 伺服马达 (带制动器)



K303~K318+ AS输入法兰

齿轮箱重量表 (Kg)

规格	K303	K304	K305	K306	K307	K308
重量	14	23	32	39	67	108
规格	K309	K310	K312	K315	K316	K318
重量	174	280	496	759	1300	1688

直联MX伺服马达重量表 (Kg)

机座号	028S	036S	048S	063M	080M	100M
额定功率 (kW)	0.28	0.47	1	2.05	3.98	6.6
不带制动器	2	3	6	16	27	55
带制动器	3	4	7	17	29	60

AS输入法兰重量表 (Kg)

规格	AS040	AS055	AS060	AS070	AS080	AS090	AS100	AS125
重量	3	3	4	5	5	5	6	7
规格	AS140	AS160	AS180	AS190	AS240	AS260	AS315	AS450
重量	6	13	24	25	30	70	95	112

## 伺服驱动器

### 14. 驱动器概述

AX精准系列伺服驱动器是专为高性能伺服应用设计的模块化伺服驱动器，具有统一的控制模块，和适配不同功率伺服马达的功率模块及一些可选附件组成，灵活的模块化为使用者的系统设计及应用提供更丰富的选择。

AX伺服驱动器配合MX永磁同步伺服马达，可以做到精准的位置、速度、扭矩控制，AX伺服驱动器也可以驱动博能异步马达，实现精确的异步伺服控制。

AX精准系列伺服驱动器由三部分组成：



**操作面板(OP25)或上位机调试软件BonengDrivesoft:** 操作面板或上位机调试软件可以为用户提供方便快捷的参数设定方法，支持汉字显示，更简单易懂的的信息反馈，及高级示波器检测诊断功能。

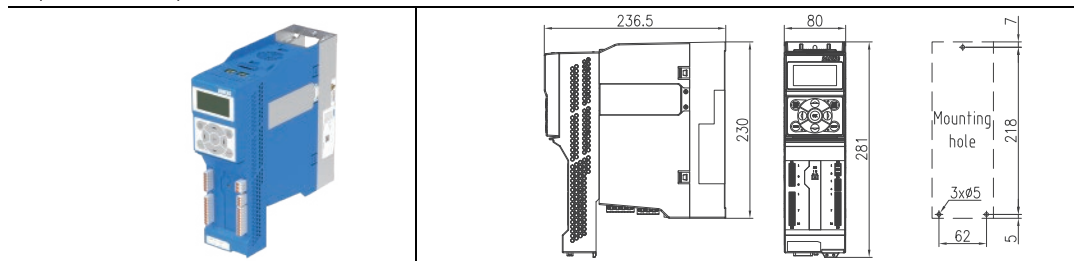
**控制模块(CM55):** 控制模块为用户提供丰富的控制接口，输入输出端子，模拟信号，及通讯等，且通过多种方式可对所接入的马达进行控制和监视。

**功率模块(PM26):** 书本型功率模块功率范围从0.75kW-132kW，支持多种控制模块，使马达调速变得简单且灵活，且包含了完备的驱动器保护功能。

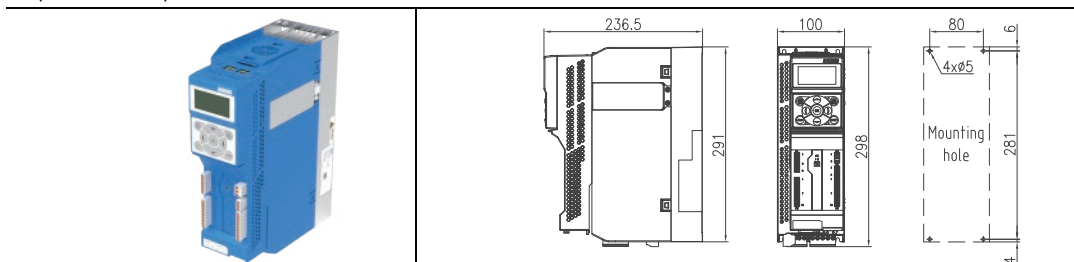
## 15.驱动器整机安装尺寸图

OP25+CM55+PM26组合的整机外形图及安装尺寸图，B1-B6功率范围，单位：mm

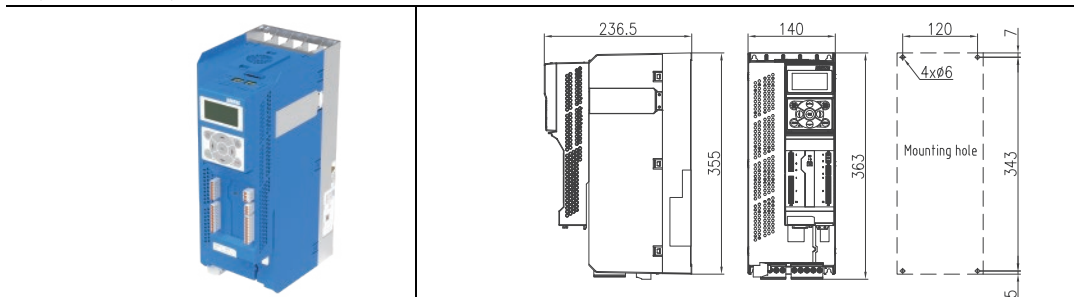
B1(0.75kW-3kW):



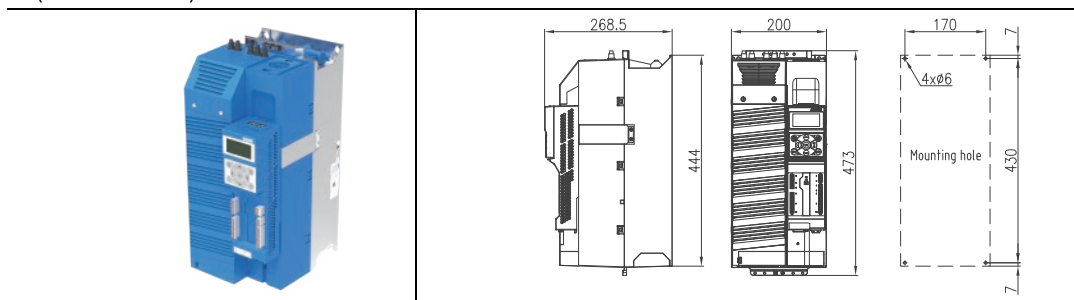
B2(4kW-7.5kW)



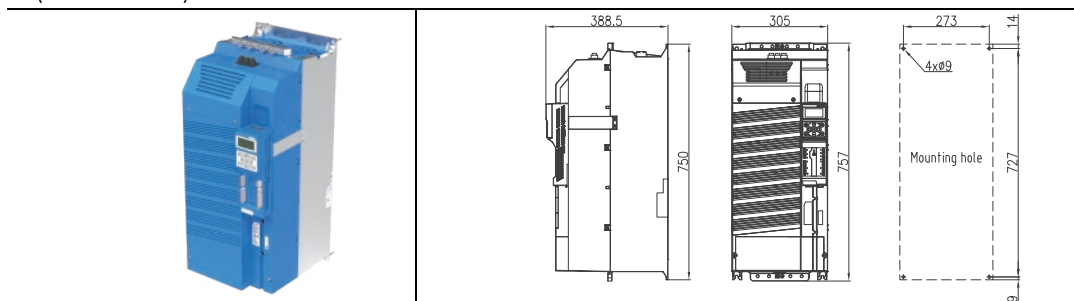
B3(11kW-15kW)



B4(18.5kW-37kW)



B6(45kW-132kW)



## 16. 驱动器控制模块

### 16.1 控制模块概述

CM55模块是专为伺服系统应用而设计的控制模块，支持PROFINET和EtherCAT总线通讯，使用者可根据自己的通讯系统选择不同型号的控制模块。



CM55控制模块

### 16.2 控制模块型号表示方法



控制模块订货号：

型号	接口类型描述
AX-CM55-EA-PE	支持EtherCAT及博能自定义DriveLink通讯，增量/绝对式光电编码器
AX-CM55-PA-PE	支持PROFINET及博能自定义DriveLink通讯，增量/绝对式光电编码器

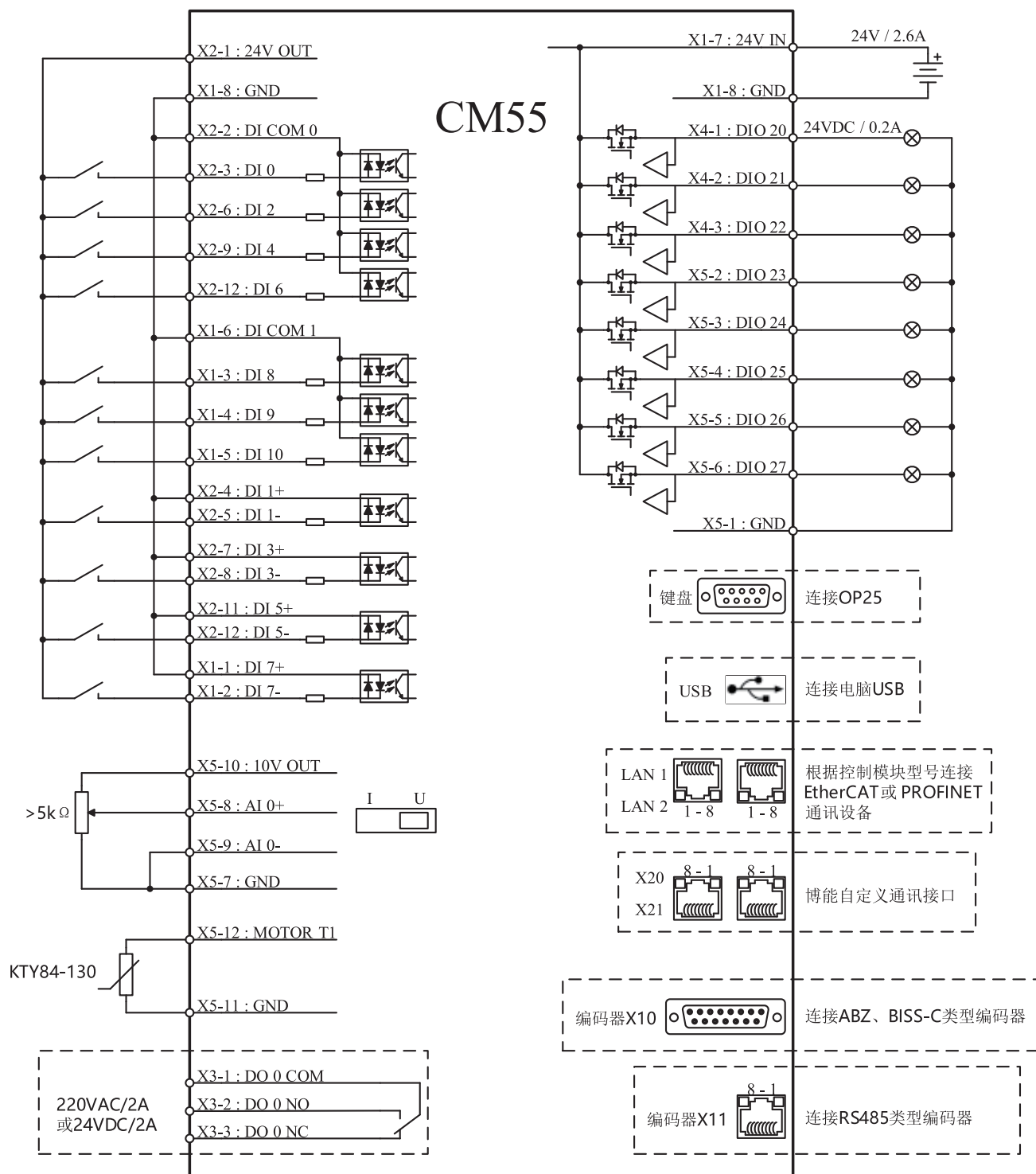
### 16.3 控制模块技术参数

功能		技术数据
总线接口	AX-CM55-PA-PE	<ul style="list-style-type: none"> <li>支持PROFINET、DriveLink</li> <li>RJ45接口</li> </ul>
	AX-CM55-EA-PE	<ul style="list-style-type: none"> <li>支持EtherCAT、DriveLink</li> <li>RJ45接口</li> </ul>
工作电源	功率模块供电	<ul style="list-style-type: none"> <li>数字量输入/输出端子作为输出使用时需外接24V电源</li> </ul>
	外部端子供电	<ul style="list-style-type: none"> <li>电压范围：DC 20.8 ... 28.8V</li> <li>最大电流：2.6A</li> </ul>
输出电源	+24V输出	<ul style="list-style-type: none"> <li>电压范围：DC 18V ... 26.8V</li> <li>最大电流：200mA</li> </ul>
	+10V输出	<ul style="list-style-type: none"> <li>电压范围：DC 9.5V ... 10.5V</li> <li>最大电流：40mA</li> </ul>
	DB15接口编码器电源	<ul style="list-style-type: none"> <li>电压：DC 5V或DC 24V</li> <li>最大电流：350mA</li> </ul>
	RJ45接口编码器电源	<ul style="list-style-type: none"> <li>电压：DC 5V</li> <li>最大电流：200mA</li> </ul>
数字量输入	11个（DI0~DI10）	<ul style="list-style-type: none"> <li>DI1、DI3、DI5、DI7为非公共端子类型</li> <li>DI0、DI2、DI4、DI6公共端子DICOM0</li> <li>DI8、DI9、DI10公共端子DICOM1</li> <li>电气隔离</li> <li>支持Source和Sink模式</li> <li>电压：DC 24V、AC 36V</li> <li>"1"信号电压：&gt;11V</li> <li>"0"信号电压：&lt;5V</li> <li>24V典型电流：4mA</li> <li>响应时间：6ms（含软件滤波）</li> </ul>
数字量输出	1个继电器（DO0）	<ul style="list-style-type: none"> <li>电压：DC 24V、AC 220V</li> <li>连续电流：2A</li> <li>切换电流：2A</li> <li>触点类型：1常开1常闭</li> </ul>
数字量输入/输出	8个（DI020~DI027）	<ul style="list-style-type: none"> <li>电压：最大DC 30V</li> <li>电流：输出最大200mA，24V输入典型4mA</li> <li>频率：最大100Hz</li> <li>输入"1"信号电压：&gt;15V</li> <li>输入"0"信号电压：&lt;5V</li> <li>非电气隔离</li> <li>外部供电端子需接24V</li> </ul>
模拟量输入	1个（AI0）	<ul style="list-style-type: none"> <li>差分输入</li> <li>拨码开关切换电压和电流模式</li> <li>电压型支持-10V ... +10V、0V ... 10V</li> <li>电流型支持0mA ... 20mA、4mA ... 20mA</li> <li>电流型内阻250Ω</li> <li>响应时间：2ms（含软件滤波）</li> <li>精度：±1%</li> </ul>
温度传感器	2个	<ul style="list-style-type: none"> <li>分别位于端子X5和X11</li> <li>支持KTY84-130、PTC</li> </ul>
编码器信号输入	ABZ	<ul style="list-style-type: none"> <li>支持24V的单端信号、5V和24V的差分信号</li> <li>输入频率：最大250kHz</li> <li>断线侦测：仅支持差分类型</li> <li>最大长度：5V差分类型100m 24V开集极类型50m 24V推挽类型100m 24V差分类型300m</li> </ul>
	BISS-C	<ul style="list-style-type: none"> <li>波特率：最大4Mbps</li> <li>最大长度：500kbps时100m</li> </ul>
	RS485	<ul style="list-style-type: none"> <li>波特率：最大2.5Mbps</li> <li>最大长度：500kbps时100m</li> </ul>
USB接口	1个	<ul style="list-style-type: none"> <li>USB 2.0</li> <li>Mini-B</li> </ul>
指示灯	2个双色指示灯	<ul style="list-style-type: none"> <li>RDV指示灯：红绿双色</li> <li>BF指示灯：红绿双色</li> </ul>
	3个单色指示灯	<ul style="list-style-type: none"> <li>SAFE指示灯：黄色</li> <li>LNK1指示灯：绿色</li> <li>LNK2指示灯：绿色</li> </ul>
键盘接口	支持OP25	<ul style="list-style-type: none"> <li>可直接安装或外引安装</li> </ul>
工作温度	-20℃ ... +50℃	
存储温度	-40℃ ... +70℃	
相对空气湿度	<95%	不允许有凝露
污染	符合IEC 61800-5-1	适用于污染等级2的环境
电磁兼容性	符合IEC 61800-3	



## 16.4 控制模块电气连接

### 16.4.1 控制模块接线示意图:



16.4.2 编码器接口信号定义:

a) 编码器接口(X10)信号定义

	引脚	信号说明
	1	BISS-C的数据+
	2	BISS-C的时钟+
	3	BISS-C的时钟-
	4	编码器电源 (5V或24V)
	5	编码器电源 (5V或24V)
	6	编码器电源侦测输入
	7	电源地
	8	BISS-C的数据-
	9	编码器电源侦测输入接地
	10	增量式信号Z+
	11	增量式信号Z-
	12	增量式信号B-
	13	增量式信号B+
	14	增量式信号A-
15	增量式信号A+	

b) 编码器接口(X11)信号定义

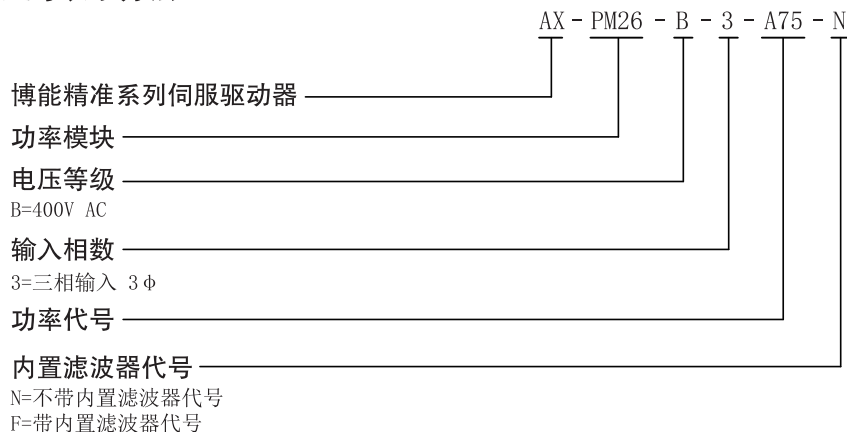
	引脚	信号说明
	1	KTY84-130或PTC输入
	2	KTY84-130或PTC的接地
	3	—
	4	RS485信号B
	5	RS485信号A
	6	—
	7	编码器电源(5V)
8	电源地	

## 17. 驱动器功率模块

### 17.1 功率模块概述

伺服驱动器功率模块AX-PM26的功率范围为0.75kW-132kW,可适配博能MX系列伺服马达,用户无需担心MX伺服马达和AX-PM26的选型匹配问题,只需要按样本前面章节中厂家推荐的默认选型匹配表进行匹配即可。AX-PM26伺服功率模块匹配AX-CM55伺服控制模块,构成了博能精准定位的伺服驱动器。

### 17.2 功率模块型号表示方法

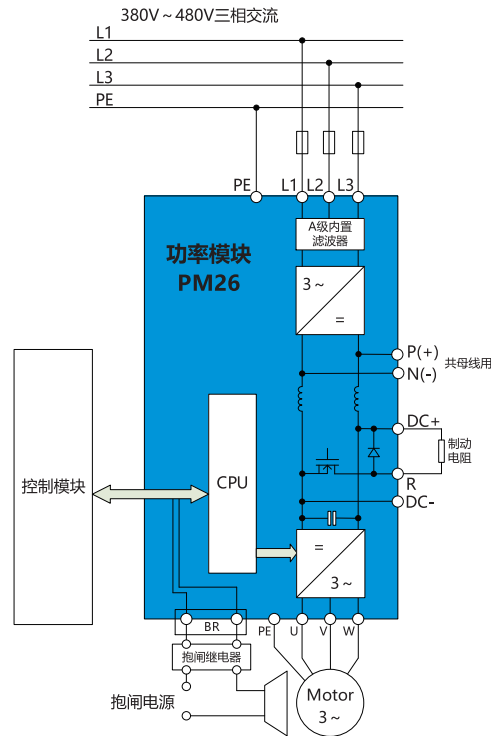


### 功率模块订货数据:

380...480V 3AC输入		外形尺寸	型号
额定数据			无内置滤波器
额定功率 (kW)	额定电流 (A)		
0.75	1.25	B1	AX-PM26-B3A75-N
1.5	2.42		AX-PM26-B3B15-N
2.2	3.43		AX-PM26-B3B22-N
3	4.51		AX-PM26-B3B30-N
4	5.93	B2	AX-PM26-B3B40-N
5.5	7.69		AX-PM26-B3B55-N
7.5	10.53		AX-PM26-B3B75-N
11	15.2	B3	AX-PM26-B3C11-N
15	18.71		AX-PM26-B3C15-N
18.5	22.22	B4	AX-PM26-B3C18-N
22	26.32		AX-PM26-B3C22-N
30	35.09		AX-PM26-B3C30-N
37	43.86		AX-PM26-B3C37-N
45	52.63	B6	AX-PM26-B3C45-N
55	64.33		AX-PM26-B3C55-N
75	84.79		AX-PM26-B3C75-N
90	104.09		AX-PM26-B3C90-N
110	119.88		AX-PM26-B3D11-N
132	146.2		AX-PM26-B3D13-N

注:(带内置滤波器的功率模块PM26无现货库存,如需要,请咨询厂家。)

## 17.3 功率模块电气连接



## 17.4 功率模块通用技术参数

PM26功率模块（通用参数）	
输入电压	380…480V 3AC ±10%
输入频率	47…63Hz
默认载波频率	变频模式：90kW及以下4kHz, 110kW及以上2kHz 伺服模式：90kW及以下8kHz, 110kW及以上4kHz
功率因数	0.95
驱动器效率	95…97%
过载能力	在30s周期性冲击负载下，可实现3倍3s的过载能力
电磁兼容	可选符合EN 55011标准的A级滤波器和B级滤波器
可选制动方式	<ul style="list-style-type: none"> <li>●DC制动   直流电流制动，制动力有限</li> <li>●外挂制动单元                                 直流母线上外接制动单元，或外挂回馈单元制动</li> <li>●内置制动斩波器，需外接制动电阻</li> </ul>
防护等级	IP20
工作温度	-20…+40℃无需降额；+40℃…+50℃每升高1℃降额1.5%；+50℃…+60℃每升高1℃降额5%
存储温度	-40…+70℃
相对湿度	<95% RH, 无结露
冷却方式	内部风冷   功率部分采用内置风扇强制风冷
安装海拔高度	海拔1000m以下无需降额；1000m…4000m每升高100m降额1%
标准SCCR	小于100kA
保护功能	<ul style="list-style-type: none"> <li>●欠电压</li> <li>●过电压</li> <li>●过载</li> <li>●接地故障</li> <li>●短路</li> <li>●马达抱闸保护</li> <li>●马达过温</li> <li>●输出缺相</li> <li>●变频器过温</li> </ul>

## 17.5 功率模块详细技术参数

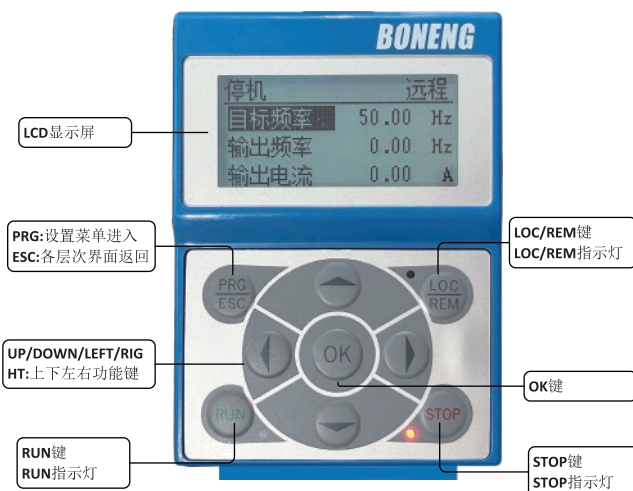
进线电压380...480V 3AC										
技术参数		AX-PM26-B3A75	AX-PM26-B3B15	AX-PM26-B3B22	AX-PM26-B3B30	AX-PM26-B3B40	AX-PM26-B3B55	AX-PM26-B3B75	AX-PM26-B3C11	AX-PM26-B3C15
额定输出功率 kW		0.75	1.5	2.2	3	4	5.5	7.5	11	15
额定输入 电流	带进线电抗器 A	2.3	4.3	6.1	8	10.4	15.3	18.7	26	33
	不带进线电抗器 A	2.6	4.9	7.6	10.2	13.4	17.2	21.9	32	39
额定输出电流 A		1.25	2.42	3.43	4.51	5.93	7.69	10.53	15.2	18.71
效率 $\eta$		>0.95			>0.95			>0.95		
功率损失kW		0.1	0.11	0.14	0.16	0.18	0.24	0.3	0.4	
冷却风量要求 m <sup>3</sup> /s		0.005			0.024	0.024	0.055		0.055	
噪声水平 dB(A)		<40			<50			<40		
控制单元接口		1			1			1		
制动电阻连接电缆的 最大长度 m		15			15			15		
进线电源 连接	L1、L2、L3	螺钉端子			螺钉端子			螺钉端子		
	电缆截面积 mm <sup>2</sup>	1...2.5			2.5...6			4...10		
马达连接	U、V、W	螺钉端子			螺钉端子			螺钉端子		
	电缆截面积 mm <sup>2</sup>	1...2.5			2.5...6			4...10		
直流母线连 接（制动 电阻的连接）	DC+、DC-、R	螺钉端子			螺钉端子			螺钉端子		
	电缆截面积 mm <sup>2</sup>	1...2.5			2.5...6			4...10		
PE连接		外壳上的M4螺钉			外壳上的M4螺钉			外壳上的M4螺钉		
最大马达电 缆长度	屏蔽电缆 m	50			50			50		
	非屏蔽电缆 m	100			100			100		
防护等级		IP20			IP20			IP20		
外形尺寸		B1			B2			B3		
大约重量 kg		1.7			2.8			7		

AX-PM26-B3C18	AX-PM26-B3C22	AX-PM26-B3C30	AX-PM26-B3C37	AX-PM26-B3C45	AX-PM26-B3C55	AX-PM26-B3C75	AX-PM26-B3C90	AX-PM26-B3D11	AX-PM26-B3D13
18.5	22	30	37	45	55	75	90	110	132
39	46	63	78	86	104	140	172	198	242
46	53	73	88	78	94	117	154	189	218
22.22	26.32	35.09	43.86	52.63	64.33	84.79	104.09	119.88	146.2
>0.95				>0.95					
0.5	0.7	1	1.3	1.3	1.67	1.93	2.48	2.3	3.02
0.055		2x0.055		0.083		0.153			
<40		<50		<75					
1				1					
15				15					
螺钉端子				电缆终端					
4...10	6...25			35...2x120					
螺钉端子				电缆终端					
4...10	6...25			35...2x120					
螺钉端子				螺钉端子					
4...10	6...25			25...70					
外壳上的M5螺钉				电缆终端					
50				50					
100				100					
IP20				IP20					
B4				B6					
16				65					

## 18.驱动器操作面板

### 18.1操作面板概述

操作面板OP25为驱动器调试提供更加灵活的调试诊断方式，AX系列伺服驱动器可以通过PC及上位机进行调试，也可以使用OP25进行快捷调试。



18.2 操作面板订货型号为：A1-OP25

## 19.驱动器可选件

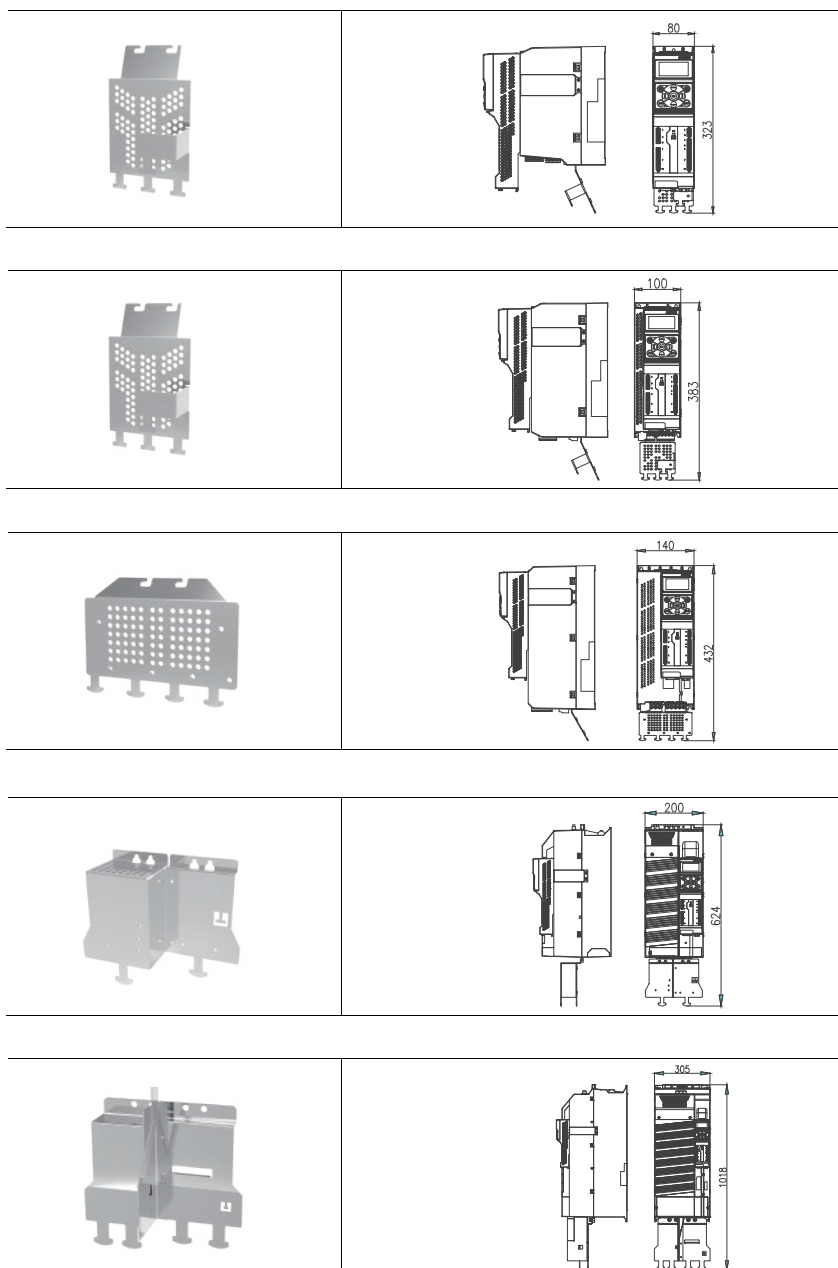
### 19.1屏蔽端接组件

屏蔽端接组件不仅可以消除机械应力，还可以使得电源和控制电缆的屏蔽层连接更加简单美观，且保证有更好的EMC效果。

订货数据：

外形尺寸	型号
B1	A1-H06-B1
B2	
B3	A1-H06-B3
B4	A1-H06-B4
B6	A1-H06-B6

屏蔽端外形及尺寸要求：





## 19.2 进线电抗器

当系统的故障率高时，需要加装进线电抗器以保护驱动器不受过大的谐波电流的干扰，改善驱动器的输入侧功率因数；防止过载，并将进线谐波限制在允许的值内，以确保驱动器达到期望的使用寿命。400V 50/60Hz AX精准系列伺服驱动器可选的进线电抗器推荐型号如下表：

驱动器		进线电抗器推荐参数		订货号
框架	无内置滤波器型号	额定电流 (A)	电感 (mH)	
B1	AX-PM26-B3A75-N	2.6	5.9	A1-H12-TB280
	AX-PM26-B3B15-N	4.9	3.1	A1-H12-TB280
	AX-PM26-B3B22-N	7.1	2.2	A1-H12-TB200
	AX-PM26-B3B30-N	9.2	1.7	A1-H12-TB140
B2	AX-PM26-B3B40-N	12.2	1.3	A1-H12-TA930
	AX-PM26-B3B55-N	15.8	1	A1-H12-TA700
	AX-PM26-B3B75-N	21.6	0.8	A1-H12-TA700
B3	AX-PM26-B3C11-N	31.2	0.5	A1-H12-TA470
	AX-PM26-B3C15-N	38.4	0.4	A1-H12-TA350
B4	AX-PM26-B3C18-N	45.6	0.5	A1-H12-TA280
	AX-PM26-B3C22-N	54	0.4	A1-H12-TA240
	AX-PM26-B3C30-N	72	0.3	A1-H12-TA160
	AX-PM26-B3C37-N	90	0.2	A1-H12-TA160
B6	AX-PM26-B3C45-N	120	0.117	A1-H12-TB120
	AX-PM26-B3C55-N	150	0.094	A1-H12-TA095
	AX-PM26-B3C75-N	200	0.07	A1-H12-TA070
	AX-PM26-B3C90-N	250	0.056	A1-H12-TA056
	AX-PM26-B3D11-N	250	0.056	A1-H12-TA056
	AX-PM26-B3D13-N	290	0.048	A1-H12-TA048

## 19.3 进线滤波器

进线滤波器的作用是抑制驱动器通过输入电源线所传输到公共电网中的电磁干扰,同时也衰减从电源线进入驱动器的干扰；在安装时请尽量靠近驱动器的输入端子侧进行安装，请使用驱动器专用的进线滤波器。400V 50/60Hz AX精准系列伺服驱动器可选的进线滤波器推荐型号如下表：

驱动器		EMC滤波器	订货号
框架	无内置滤波器型号	额定电流 (A)	
B1	AX-PM26-B3A75-N	2.9	A1-H11-A-C10
	AX-PM26-B3B15-N	5.5	A1-H11-A-C10
	AX-PM26-B3B22-N	7.7	A1-H11-A-C10
	AX-PM26-B3B30-N	10.1	A1-H11-A-C10
B2	AX-PM26-B3B40-N	13.3	A1-H11-A-C20
	AX-PM26-B3B55-N	17.2	A1-H11-A-C20
	AX-PM26-B3B75-N	22.2	A1-H11-A-C30
B3	AX-PM26-B3C11-N	32.6	A1-H11-A-C36
	AX-PM26-B3C15-N	39.9	A1-H11-A-C50
B4	AX-PM26-B3C18-N	36	A1-H11-A-C50
	AX-PM26-B3C22-N	42	A1-H11-A-C50
	AX-PM26-B3C30-N	57	A1-H11-A-C65
	AX-PM26-B3C37-N	70	A1-H11-A-C80
B6	AX-PM26-B3C45-N	100	A1-H11-A-D10
	AX-PM26-B3C55-N	130	A1-H11-A-D13
	AX-PM26-B3C75-N	150	A1-H11-A-D15
	AX-PM26-B3C90-N	180	A1-H11-A-D18
	AX-PM26-B3D11-N	200	A1-H11-A-D20
	AX-PM26-B3D13-N	250	A1-H11-A-D25

## 19.4 出线电抗器

当驱动器和马达之间的距离超过50米时，由于长电缆对地的寄生电容效应导致漏电流过大，驱动器容易频繁发生过流保护，同时为了避免马达绝缘损坏，须加输出电抗器补偿，输出电抗器可以减小马达绕组上的电压负载，以及采用长的马达电缆时，容性充放电电流加在功率部分的附加负载。400V 50/60Hz AX精准系列伺服驱动器可选的输出电抗器推荐型号如下表：

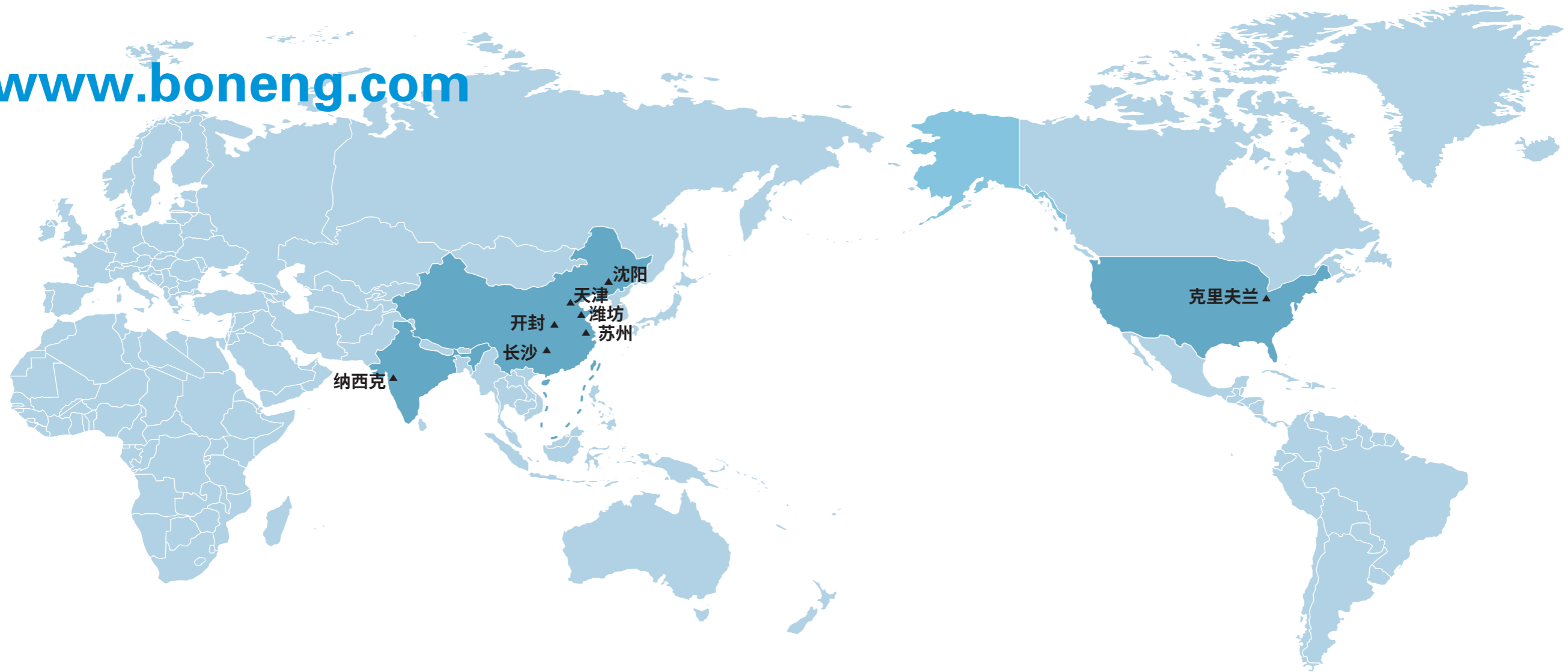
驱动器		输出电抗器		订货号
框架	无内置滤波器型号	额定电流 (A)	电感 (mH)	
B1	AX-PM26-B3A75-N	2.6	3.2	A1-H13-TB140
	AX-PM26-B3B15-N	4.9	1.7	A1-H13-TB140
	AX-PM26-B3B22-N	7.1	1.2	A1-H13-TB100
	AX-PM26-B3B30-N	9.2	0.9	A1-H13-TA700
B2	AX-PM26-B3B40-N	12.2	0.7	A1-H13-TA470
	AX-PM26-B3B55-N	15.8	0.5	A1-H13-TA350
	AX-PM26-B3B75-N	21.6	0.4	A1-H13-TA230
B3	AX-PM26-B3C11-N	31.2	0.3	A1-H13-TA180
	AX-PM26-B3C15-N	38.4	0.2	A1-H13-TA180
B4	AX-PM26-B3C18-N	45.6	0.2	A1-H13-TA140
	AX-PM26-B3C22-N	54	0.2	A1-H13-TA120
	AX-PM26-B3C30-N	72	0.1	A1-H13-TA087
	AX-PM26-B3C37-N	90	0.1	A1-H13-TA078
B6	AX-PM26-B3C45-N	120	0.058	A1-H13-TA058
	AX-PM26-B3C55-N	150	0.047	A1-H13-TA047
	AX-PM26-B3C75-N	200	0.035	A1-H13-TA035
	AX-PM26-B3C90-N	250	0.028	A1-H13-TA028
	AX-PM26-B3D11-N	250	0.028	A1-H13-TA028
	AX-PM26-B3D13-N	290	0.024	A1-H13-TA024

## 19.5 制动电阻

制动电阻用于使大转动惯量的负载迅速制动。在马达和负载制动时，动能转换成的再生电能会返回到驱动器中，直流母线电压因此抬高，驱动器将这些再生的能量几乎全部消耗在制动电阻上；400V 50/60Hz AX精准系列伺服驱动器可选的制动电阻推荐规格如下：

驱动器			允许的最小 制动电阻	推荐值		博能型号	
框架	无内置滤波器型号	有内置滤波器型号		功率(W)	阻值(Ω)	订货号	等效制动电阻
B1	AX-PM26-B3A75-N	AX-PM26-B3A75-F	374Ω	60	750	A1-H02-A06-K-D75	60W 750Ω
	AX-PM26-B3B15-N	AX-PM26-B3B15-F	374Ω	80	390	A1-H02-A08-K-D39	80W 390Ω
	AX-PM26-B3B22-N	AX-PM26-B3B22-F	140Ω	150	180	A1-H02-A15-K-D18	150W 180Ω
	AX-PM26-B3B30-N	AX-PM26-B3B30-F	140Ω	150	180	A1-H02-A15-K-D18	150W 180Ω
B2	AX-PM26-B3B40-N	AX-PM26-B3B40-F	75Ω	300	100	A1-H02-A30-K-D10	300W 100Ω
	AX-PM26-B3B55-N	AX-PM26-B3B55-F	75Ω	300	100	A1-H02-A30-K-D10	300W 100Ω
	AX-PM26-B3B75-N	AX-PM26-B3B75-F	75Ω	400	75	A1-H02-A40-K-C75	400W 75Ω
B3	AX-PM26-B3C11-N	AX-PM26-B3C11-F	30Ω	800	36	A1-H02-A80-K-C36	800W 36Ω
	AX-PM26-B3C15-N	AX-PM26-B3C15-F	30Ω	800	36	A1-H02-A80-K-C36	800W 36Ω
B4	AX-PM26-B3C18-N	AX-PM26-B3C18-F	27Ω	1000	27	A1-H02-B10-K-C27	1000W 27Ω
	AX-PM26-B3C22-N	AX-PM26-B3C22-F	27Ω	1000	27	A1-H02-B10-K-C27	1000W 27Ω
	AX-PM26-B3C30-N	AX-PM26-B3C30-F	15Ω	2000	15	A1-H02-B20-K-C15	2000W 15Ω
	AX-PM26-B3C37-N	AX-PM26-B3C37-F	15Ω	2000	15	A1-H02-B20-K-C15	2000W 15Ω
B6	AX-PM26-B3C45-N	AX-PM26-B3C45-F	10Ω	3000	10	A1-H02-B30-K-C10	3000W 10Ω
	AX-PM26-B3C55-N	AX-PM26-B3C55-F	10Ω	3000	10	A1-H02-B30-K-C10	3000W 10Ω
	AX-PM26-B3C75-N	AX-PM26-B3C75-F	7.1Ω	4000	7.5	A1-H02-B40-K-B75	4000W 7.5Ω
	AX-PM26-B3C90-N	AX-PM26-B3C90-F	7.1Ω	4000	7.5	A1-H02-B40-K-B75	4000W 7.5Ω
	AX-PM26-B3D11-N	AX-PM26-B3D11-F	5Ω	6000	5	A1-H02-B60-K-B50	6000W 5Ω
	AX-PM26-B3D13-N	AX-PM26-B3D13-F	5Ω	6000	5	A1-H02-B60-K-B50	6000W 5Ω

有关本公司产品目录的内容，随着技术进步等，将会有变更，望谅解！



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