



上海赢双电机科技股份有限公司

Shanghai Yingshuang Electric Machinery Technology Co.,Ltd

全球专业旋变供应商
Global Resolver Supplier



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Shanghai Yingshuang Electric Machinery Technology Co.,Ltd

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中国·上海
China. Shanghai



Company PROFILE 公司简介

上海赢双电机科技股份有限公司成立于2005年，公司位于上海市闵行区颙桥镇北吴路1230号，是一家致力于旋转变压器研发、生产和提供系统解决方案的高新技术企业。

公司成立以来，坚持以市场为导向，走产学研发展的道路，已参加和承担多项国家863、上海市科委科研项目。已获取60多项专利。

公司一直坚持以客户为中心、企业价值产生于客户价值的理念。公司于2010年通过ISO9001质量体系认证，2014年通过TS16949汽车质量管理体系认证，并于2018年通过IATF16949:2016/ISO9001:2015体系认证；2012年被授予“上海市高新技术企业”，2015年被授予上海市“专精特新”企业，2016年被授予“小巨人”企业，2022年被国家工信部授予“专精特新小巨人”企业，同时也是“科技小巨人”企业。

公司磁阻式旋转变压器应用于新能源汽车、高铁、轨道交通、矿山机械等诸多电驱动领域；绕线式旋转变压器主要应用于工业伺服系统、机器人、国防军工等领域。

公司本着“同发展、共进步、利益共享、实现双赢”的经营理念，于国内外广大企业携手共进，为实现提升中国电机科技水平的愿望而奋斗。

Founded in 2005, Shanghai Yingshuang Electric Machinery Technology Co., Ltd. is a high-tech enterprise specialized in the resolver research & development and providing system solutions.

Since its establishment, the company adheres to the market-oriented approach and takes the road of Production, Education and Research. It has participated in and undertaken a number of national 863 and Shanghai Science and Technology Commission scientific research projects. More than 60 patents have been obtained.

The company has always adhered to the concept of customer-centered and enterprise value arising from customer value. The company has passed ISO9001 quality system certification since 2010 and TS16949 automotive quality management certification since 2014, and has passed IATF 16949:2016 / ISO9001:2015 system certification in 2018. In 2012, the company was honored as Shanghai High-tech Enterprise. In 2015, it was awarded as Shanghai Newly Exclusive Specialized Professional Enterprise. In 2022, it was awarded as Newly Exclusive Specialized Professional Enterprise by the National Industry and Information Technology Ministry.

The company's reluctance resolver is used in many electric drive fields such as new energy vehicles, high-speed rail, rail transit, mining machinery, etc; Brushless resolver is mainly used in industrial servo systems, robots, national defense and military industries etc.

Based on the business philosophy of Develop & Improve together, Share benefit & Achieve win-win, the company is making progress with enterprises at home and abroad to improve China's electrical technology level.

Catalogue / 目录

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产品简介 Product introduction

绕线式旋变工作原理与普通变压器相似，通过定、转子绕组电磁耦合产生感生电动势，使输出绕组的感生电压随转子转角变化做相应的正弦或余弦变化的角度传感元件。广泛的应用于军工、航空航天、工业、伺服等领域。

The working principle of brushless resolver is similar to that of ordinary transformer. It is an angle sensing element that generates induced electromotive force through electromagnetic coupling of stator and rotor windings to make the induced voltage of output winding change sine or cosine with rotor angle change. It is widely used in military, aerospace, industrial, servo fields.

产品具有以下特点 The product has the following characteristics.

- 高精度的绝对式检测，适应高转速应用需求；
High precision absolute detection to meet the requirements of high speed applications.
- 结构紧凑、安装使用方便；
Compact structure, convenient installation and use.
- 可靠性高、寿命长、免维护、尤其适用于恶劣工况；
High reliability, long life, suitable for harsh environment, maintenance-free, especially for harsh working conditions;
- 性价比高；
High cost performance.
- 独有专利技术；
Unique patented technology.

电气原理 SCHEMATIC

旋转变压器是输出电压与转子转角成一定函数关系的特种电机，其一、二次侧绕组分别放在定、转子上，一次侧绕组与二次侧绕组之间的电磁耦合程度与转子的转角密切相关。

Resolver is a special motor with output voltage a function of the rotor angle. Its primary and secondary windings are placed on the stator and rotor respectively. The degree of electromagnetic coupling between the primary and secondary windings is closely related to the rotor angle.

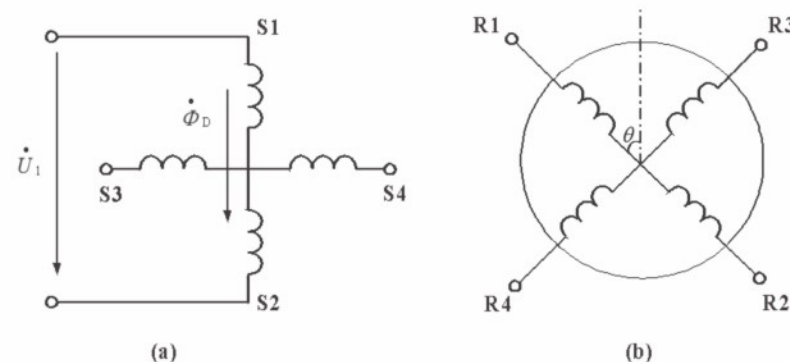
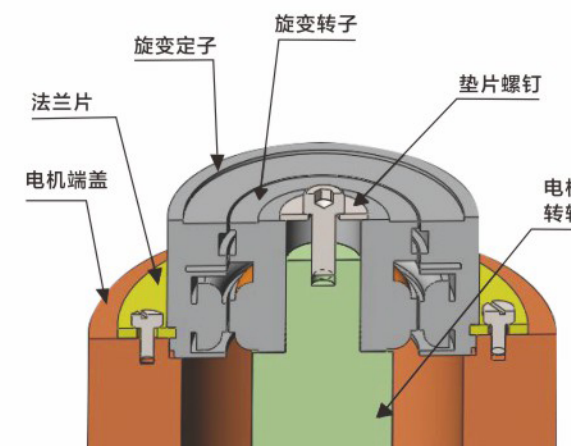
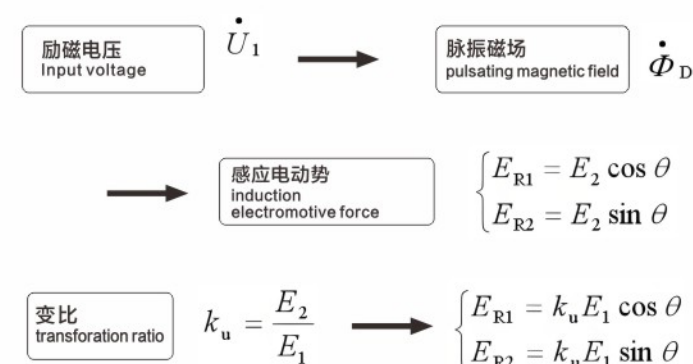


图1-1 旋转变压器的绕组结构
(a)定子绕组 (b)转子绕组



安装说明 Installation

1、对于绕线式旋转变压器的安装，建议采用（间隙配合）：H7/h6与h6/H7；

For the fit condition of brushless resolver, it is recommended to adopt (transition fit): H7/h6与h6/H7;

2、电机转轴和旋变转子、定子轴中心的偏差一般要求 $\leq 0.03\text{mm}$ ；

The deviation between the motor shaft and the center of resolver rotor and stator shaft is generally required to be $\leq 0.03\text{mm}$;

3、电机端盖与旋变定子、电机转轴与旋变转子的配合端面垂直度 $\leq 0.05\text{mm}$ ；

The verticality of the mating end face between the motor end cover and the resolver stator, the motor shaft and the resolver rotor is $\leq 0.05\text{mm}$;

4、对于一体式旋转变压器（定子与转子已用轴承装配在一起），除上述要求外，电机转轴和旋变转子之间不能直接硬联接，而是需要经过专门的联轴节实现联接。

For the fabricated resolver (stator and rotor assembled together with bearings), in addition to the above requirements, the motor shaft and resolver rotor can not be directly connected forcibly, but need to be connected through a special coupling.

绕线式 | 20系列

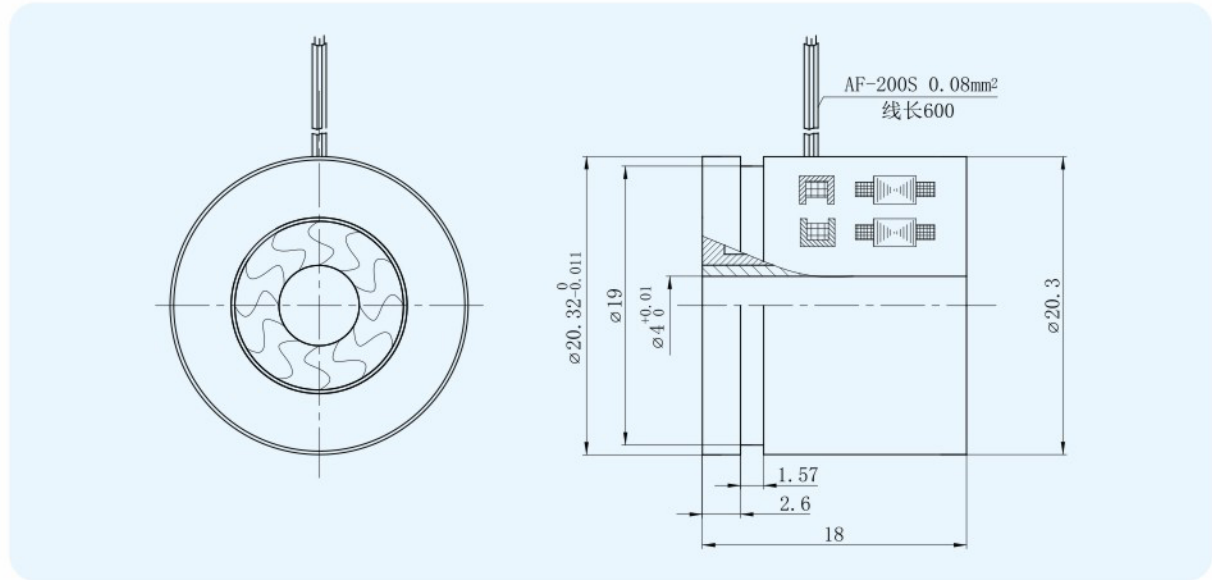
Brushless resolver 20 series

J20XFW975 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	15° ± 5°
输入阻抗(Input impedance)	(80 ± 12) Ω
输出阻抗(Output impedance)	(130 ± 20) Ω
耐电压(Dielectric strength)	AC 500Vrms 1min
绝缘电阻(Insulation resistance)	100MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



绕线式 | 26系列

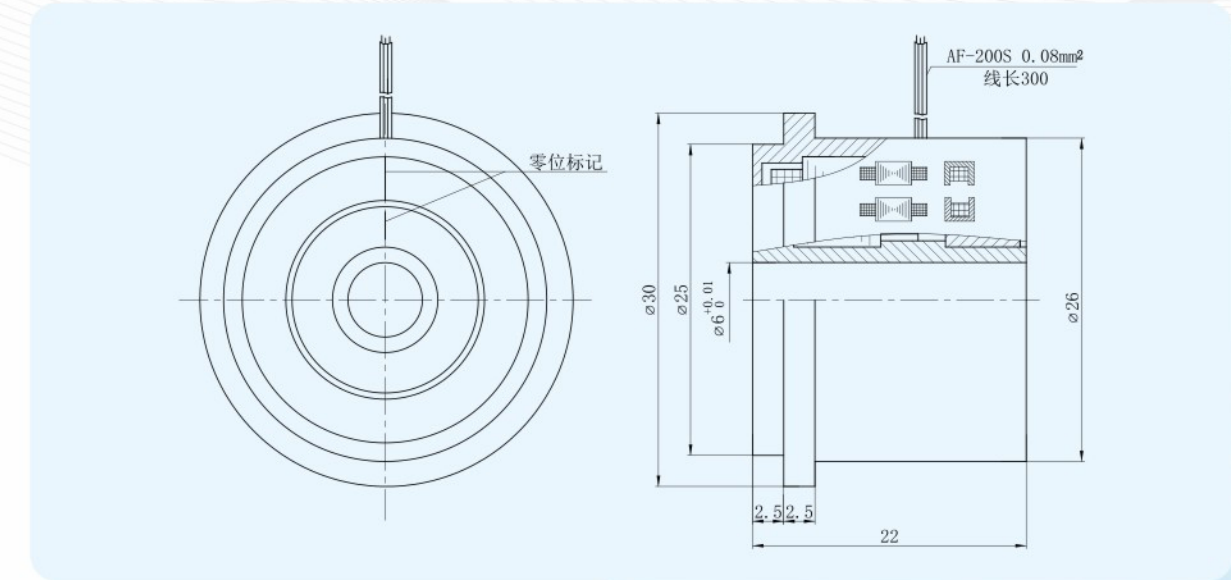
Brushless resolver 26 series

J26XFW975 >>

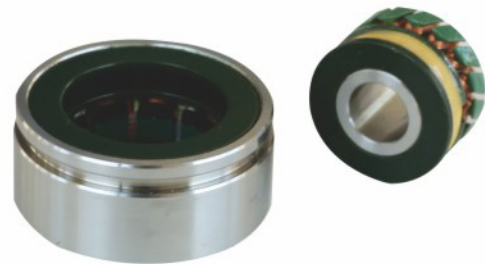


主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	0° ± 10°
输入阻抗(Input impedance)	≥ 100 Ω
输出阻抗(Output impedance)	≤ 350 Ω
耐电压(Dielectric strength)	AC 500Vrms 1min
绝缘电阻(Insulation resistance)	100MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)

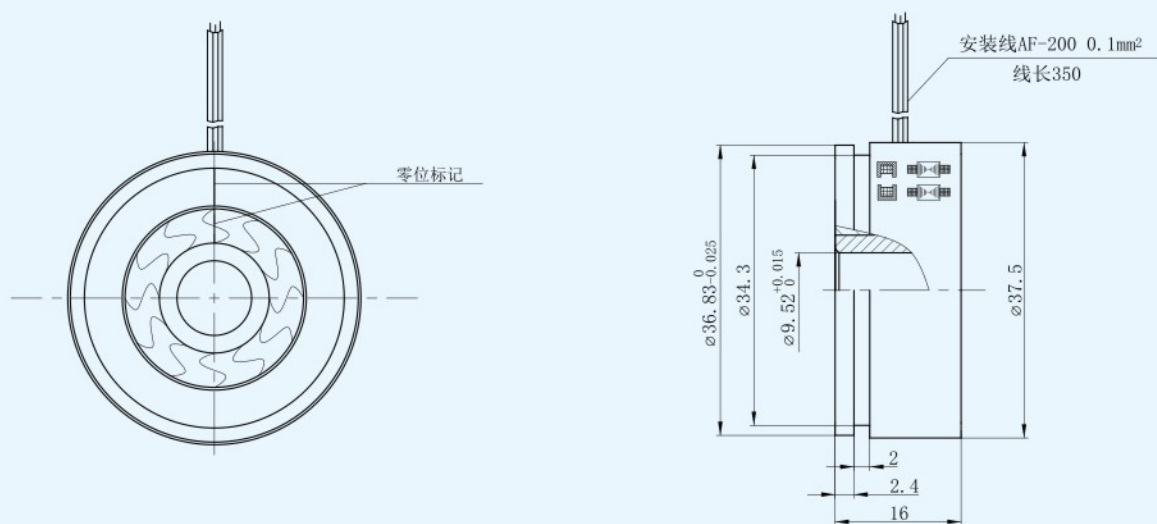


Brushless resolver 36 series

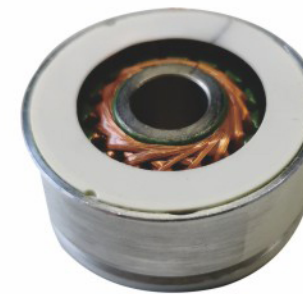


主要参数		main parameters			
型号 (Type)	J36XFW975BX	J36XFDW9752	J36XFDW9753	J36XFDW9754	
极对数 (Pole pairs)	1	2	3	4	
激磁电压 (Input voltage)	AC 7Vrms	AC 7Vrms	AC 7Vrms	AC 7Vrms	
激磁频率(Input frequency)	10KHz	10KHz	10KHz	10KHz	
变压比 (Transformation ratio)	0.5±10%	0.5±10%	0.5±10%	0.5±10%	
电气误差 (Accuracy)	±10' max	±10' max	±10' max	±8' max	
相位移 (Phase shift)	0° ±10°	0° ±10°	15° ±3°	0° ±10°	
输入阻抗(Input impedance)	(90±14)Ω	(100±15)Ω	≥90Ω	(80±12)Ω	
输出阻抗(Output impedance)	(390±59)Ω	(440±66)Ω	≤600Ω	(800±120)Ω	
耐电压(Dielectric strength)	AC 500Vrms 1min				
绝缘电阻(Insulation resistance)	250MΩ MIN				
允许最大转速(Max operating speed)	20000 rpm			15000rpm	
工作温度范围(Operating temperature range)	-55℃ ~ +155℃				
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)				

外形及安装尺寸图 Outline(dimension:mm)

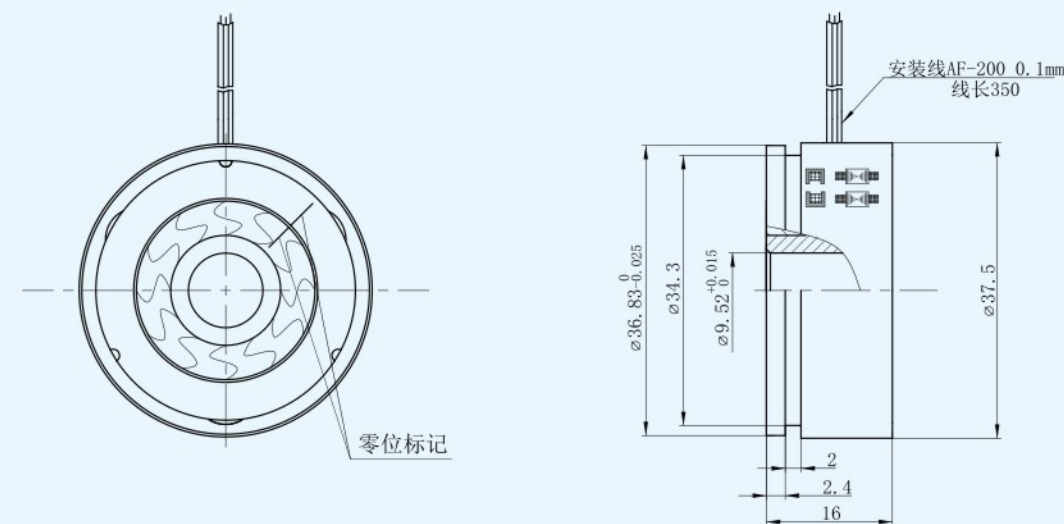


J36XFW975M >>



主要参数		main parameters	
极对数 (Pole pairs)		1	
激磁电压 (Input voltage)		AC 7Vrms	
激磁频率(Input frequency)		10KHz	
变压比 (Transformation ratio)		0.5 ± 10%	
电气误差 (Accuracy)		± 10' max	
相位移 (Phase shift)		0° ± 5°	
输入阻抗(Input impedance)		(120 ± 24) Ω	
输出阻抗(Output impedance)		(350 ± 70) Ω	
耐电压(Dielectric strength)		AC 500Vrms 1min	
绝缘电阻(Insulation resistance)		250M Ω MIN	
允许最大转速(Max operating speed)		20000 rpm	
工作温度范围(Operating temperature range)		-55℃ ~ +155℃	
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)		

外形及安装尺寸图 Outline(dimension:mm)



绕线式 | 36系列

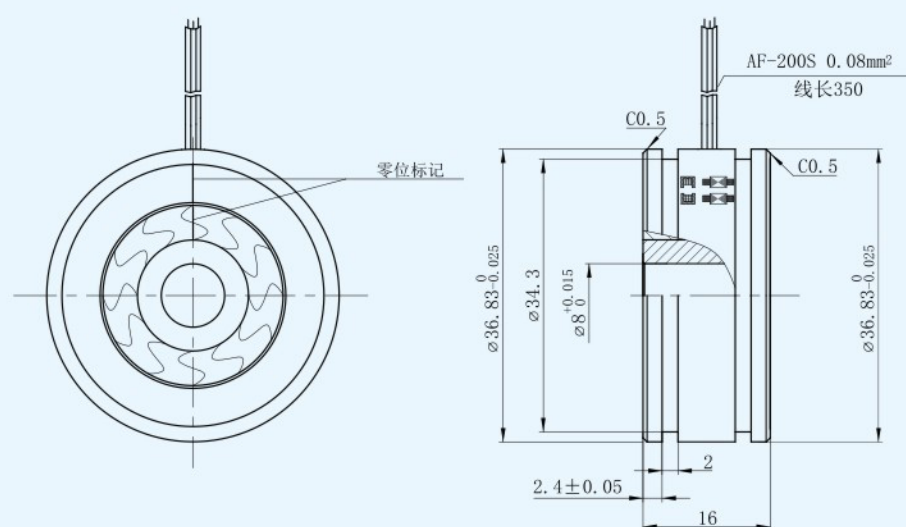
Brushless resolver 36 series

J36XFW575B >>



主要参数		main parameters	
极对数 (Pole pairs)		1	
激磁电压 (Input voltage)		AC 7Vrms	
激磁频率(Input frequency)		5KHz	
变压比 (Transformation ratio)		0.5 ± 10%	
电气误差 (Accuracy)		± 10' max	
相位移 (Phase shift)		8° ± 3°	
输入阻抗(Input impedance)		(95 ± 15) Ω	
输出阻抗(Output impedance)		(230 ± 35) Ω	
耐电压(Dielectric strength)		AC 500Vrms 1min	
绝缘电阻(Insulation resistance)		250MΩ MIN	
允许最大转速(Max operating speed)		20000 rpm	
工作温度范围(Operating temperature range)		-55℃ ~ +155℃	
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)		

外形及安装尺寸图



绕线式 | 36系列

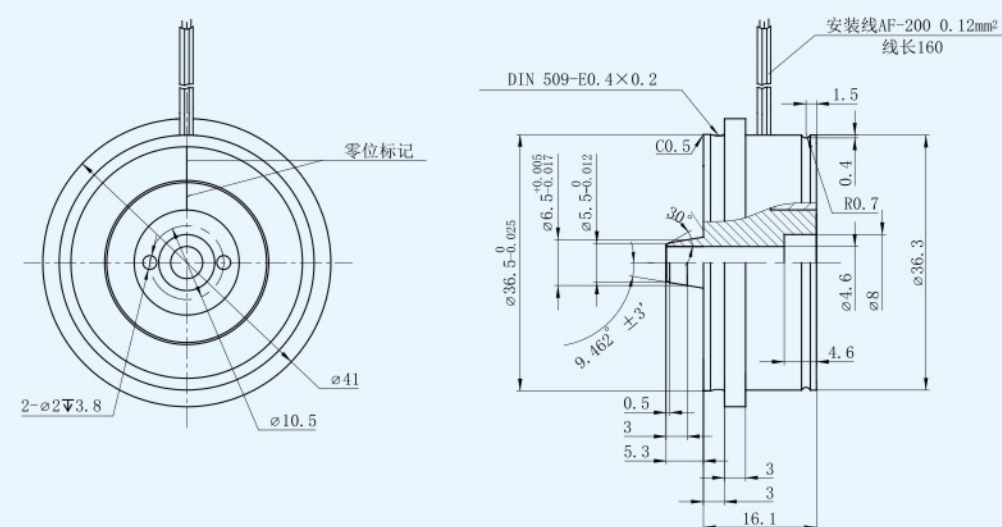
Brushless resolver 36 series

J36XFW975BX-L9 >>



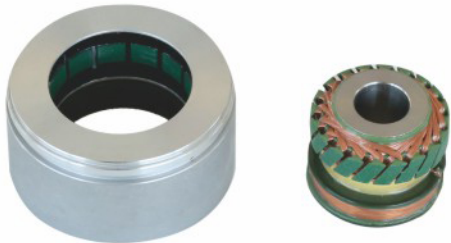
主要参数		main parameters	
极对数 (Pole pairs)		1	
激磁电压 (Input voltage)		AC 7Vrms	
激磁频率(Input frequency)		10KHz	
变压比 (Transformation ratio)		0.5 ± 10%	
电气误差 (Accuracy)		± 10' max	
相位移 (Phase shift)		0° ± 10°	
输入阻抗(Input impedance)		(160 ± 24) Ω	
输出阻抗(Output impedance)		(440 ± 66) Ω	
耐电压(Dielectric strength)		AC 500Vrms 1min	
绝缘电阻(Insulation resistance)		250M Ω MIN	
允许最大转速(Max operating speed)		20000 rpm	
工作温度范围(Operating temperature range)		-55℃ ~ +155℃	
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)		

外形及安装尺寸图



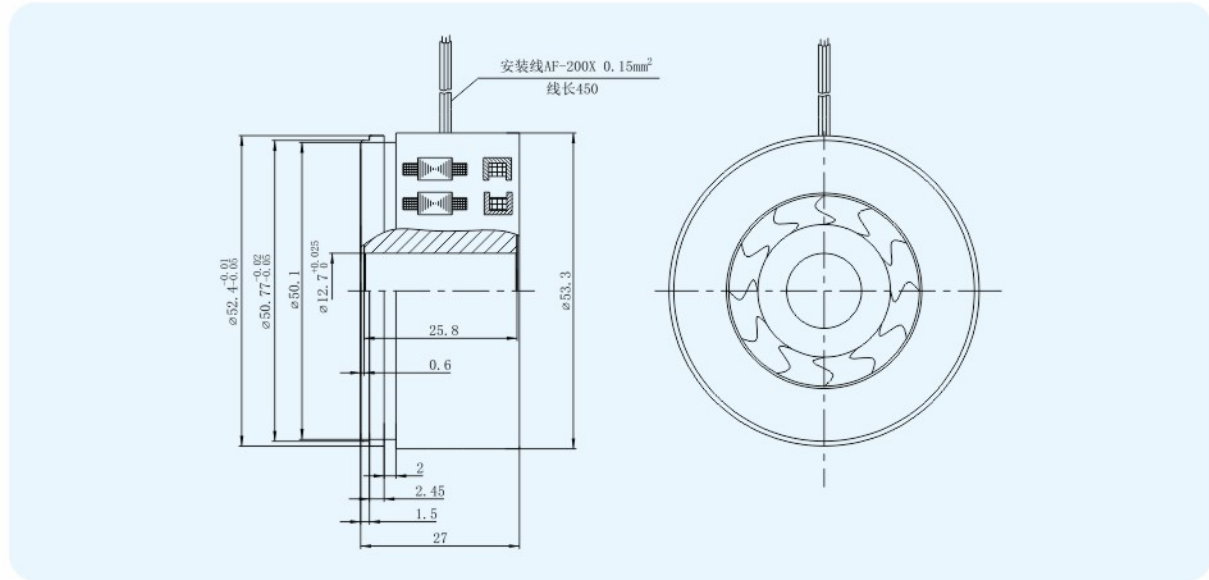
绕线式 | 52系列

Brushless resolver 52 series



主要参数	main parameters				
型号 (Type)	J52XFW975BL	J52XFDW9752	J52XFDW9753	J52XFDW9754	J52XFDW9755
极对数 (Pole pairs)	1	2	3	4	5
激励电压 (Input voltage)	AC 7Vrms	AC 7Vrms	AC 7Vrms	AC 7Vrms	AC 7Vrms
激励频率(Input frequency)	10KHz	10KHz	10KHz	10KHz	10KHz
变压比 (Transformation ratio)	0.5±10%	0.5±10%	0.5±10%	0.5±10%	0.5±10%
电气误差 (Accuracy)	±10' max	±10' max	±10' max	±10' max	±10' max
相位移 (Phase shift)	9° ±3°	9° ±3°	7° ±3°	4° ±3°	0±10°
输入阻抗(Input impedance)	(120±18)Ω	(175±27)Ω	(170±26)Ω	(90±14)Ω	(85±13)Ω
输出阻抗(Output impedance)	(360±54)Ω	(490±74)Ω	(577±87)Ω	(530±80)Ω	(1650±248)Ω
耐电压(Dielectric strength)	AC 500V 1min				
绝缘电阻(Insulation resistance)	250MΩ MIN				
允许最大转速(Max operating speed)	20000 rpm			15000rpm	12000rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃				
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)				

外形及安装尺寸图 Outline(dimension:mm)



绕线式 | 52系列

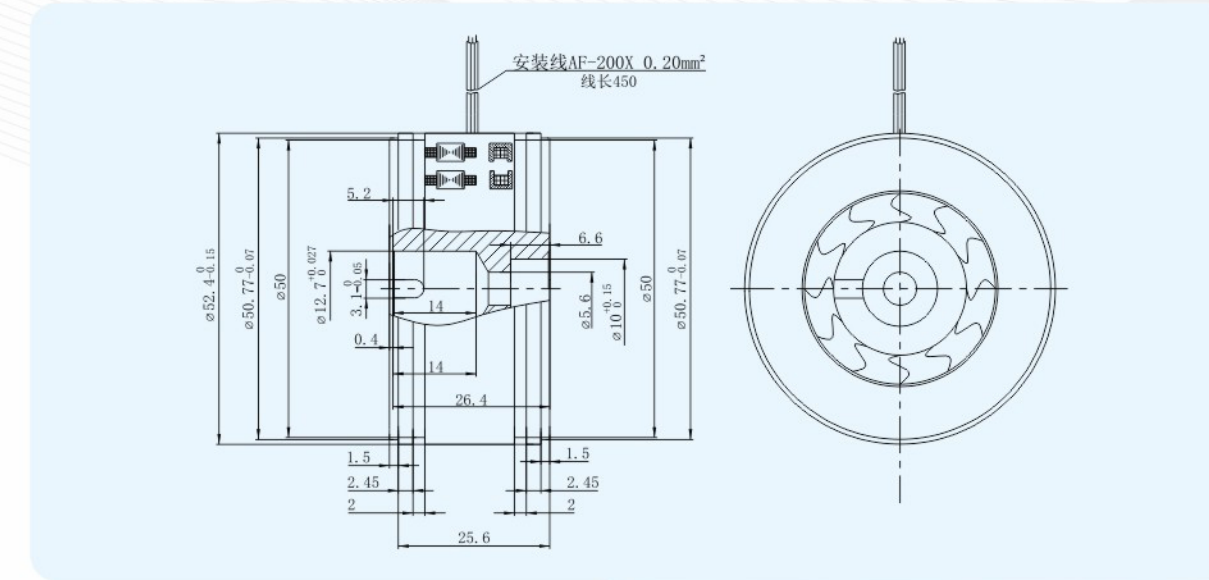
Brushless resolver 52 series

J52XFW575 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激励电压 (Input voltage)	AC 7Vrms
激励频率(Input frequency)	5KHz
变压比 (Transformation ratio)	0.5±10%
电气误差 (Accuracy)	±12' (P-P)
相位移 (Phase shift)	0° ±3°
输入阻抗(Input impedance)	(130±26)Ω
输出阻抗(Output impedance)	(500±100)Ω
耐电压(Dielectric strength)	AC 500Vrms 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



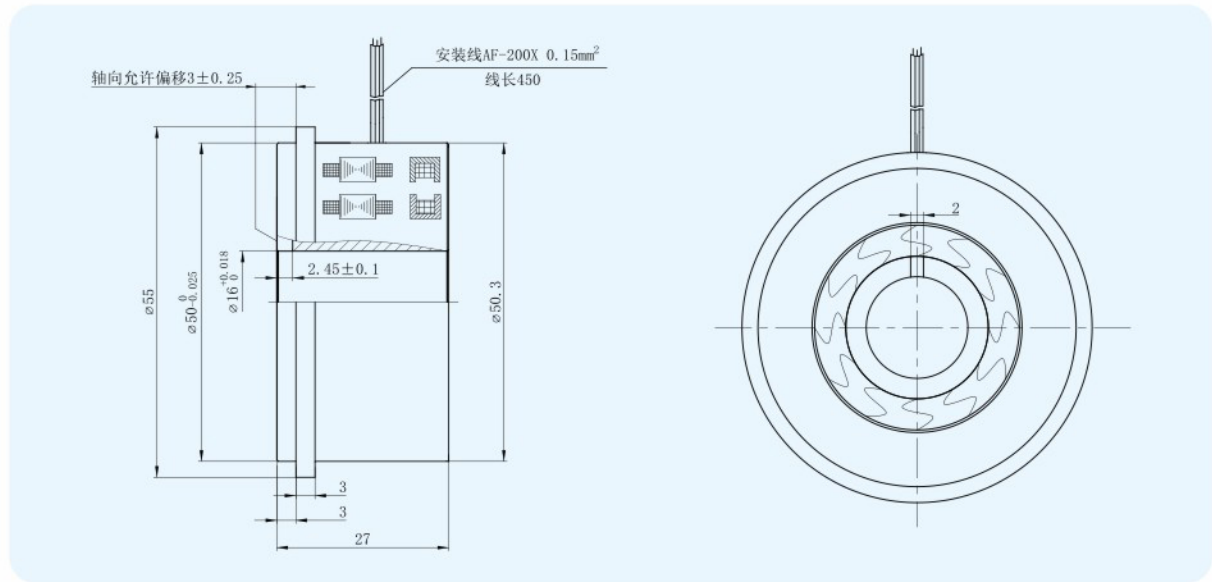
绕线式 | 55系列

Brushless resolver 55 series
J55XFW975B >>



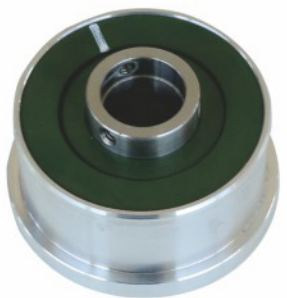
主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	9° ± 3°
输入阻抗(Input impedance)	(120 ± 18) Ω
输出阻抗(Output impedance)	(360 ± 54) Ω
耐电压(Dielectric strength)	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



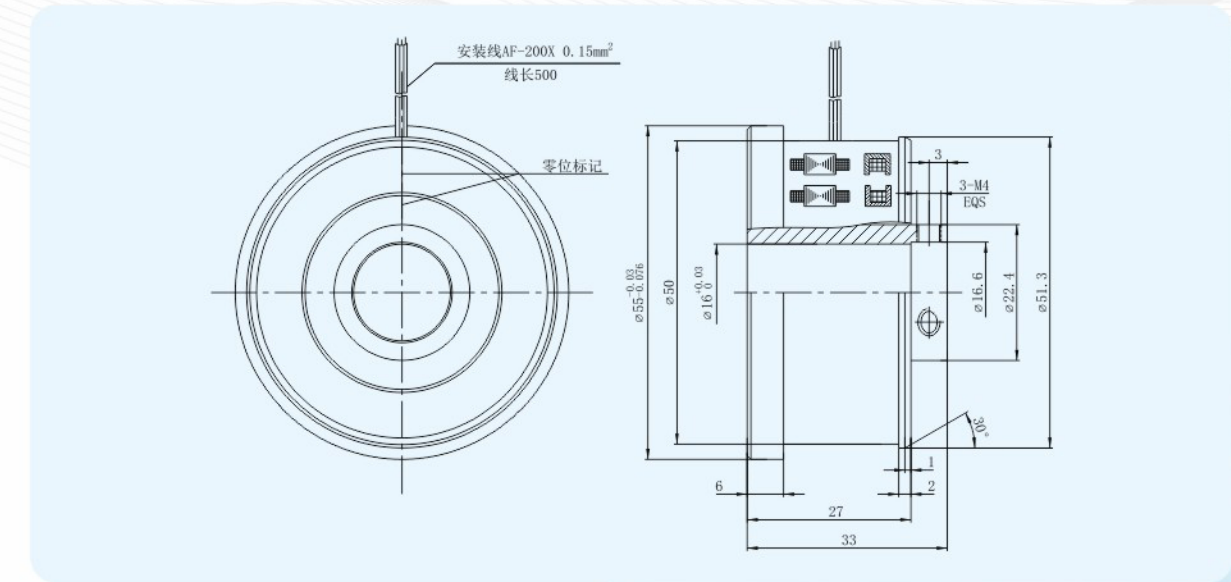
绕线式 | 55系列

Brushless resolver 55 series
J55XFW775 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	7KHz
变压比 (Transformation ratio)	0.45 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	15° ± 3°
输入阻抗(Input impedance)	(235 ± 35) Ω
输出阻抗(Output impedance)	(480 ± 72) Ω
耐电压(Dielectric strength)	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



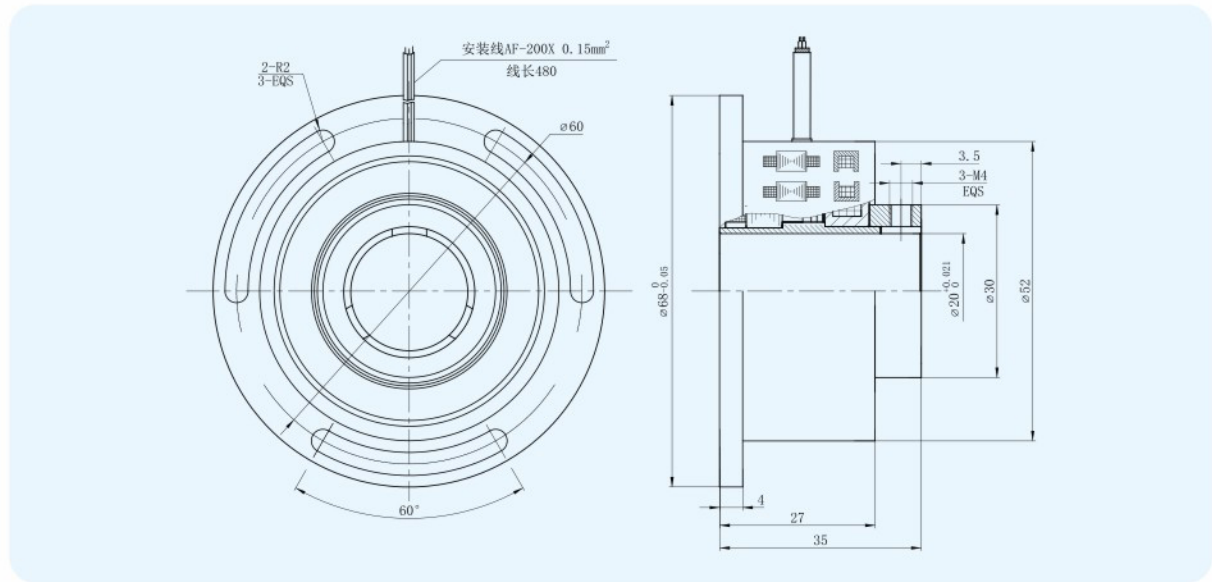
绕线式 | 68系列

Brushless resolver 68 series
J68XFW975 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	9° ± 3°
输入阻抗(Input impedance)	(120 ± 18) Ω
输出阻抗(Output impedance)	(360 ± 54) Ω
耐电压(Dielectric strength)	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	15000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



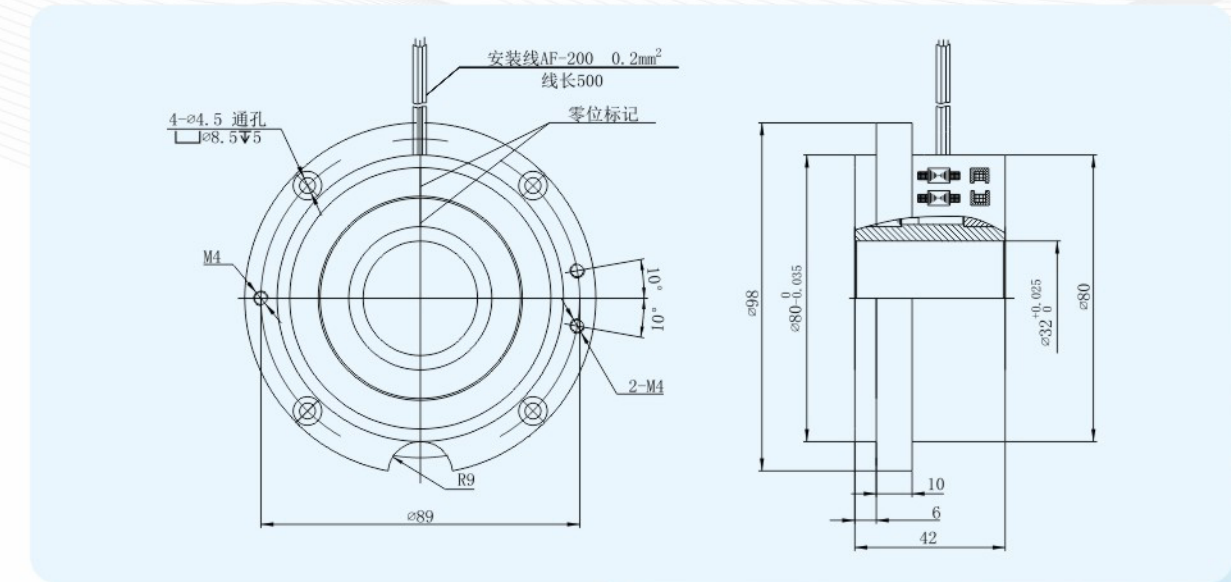
绕线式 | 80系列

Brushless resolver 80 series
80XFW975A >>



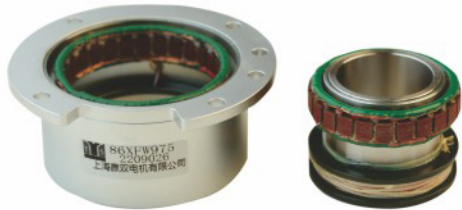
主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	-23° ± 3°
输入阻抗(Input impedance)	(140 ± 21) Ω
输出阻抗(Output impedance)	(450 ± 90) Ω
耐电压(Dielectric strength)	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



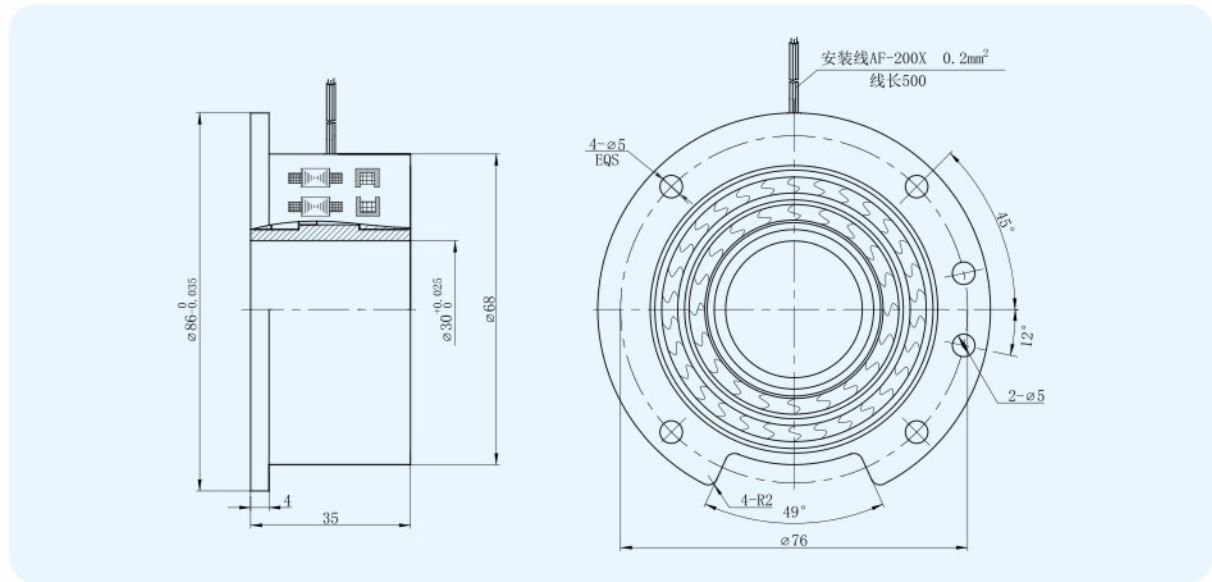
绕线式 | 86系列

Brushless resolver 86 series
86XFW975 >>



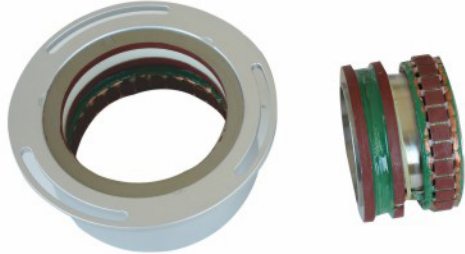
主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	-22° ± 3°
输入阻抗(Input impedance)	(116 ± 17) Ω
输出阻抗(Output impedance)	(400 ± 60) Ω
耐电压(Dielectric strength)	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



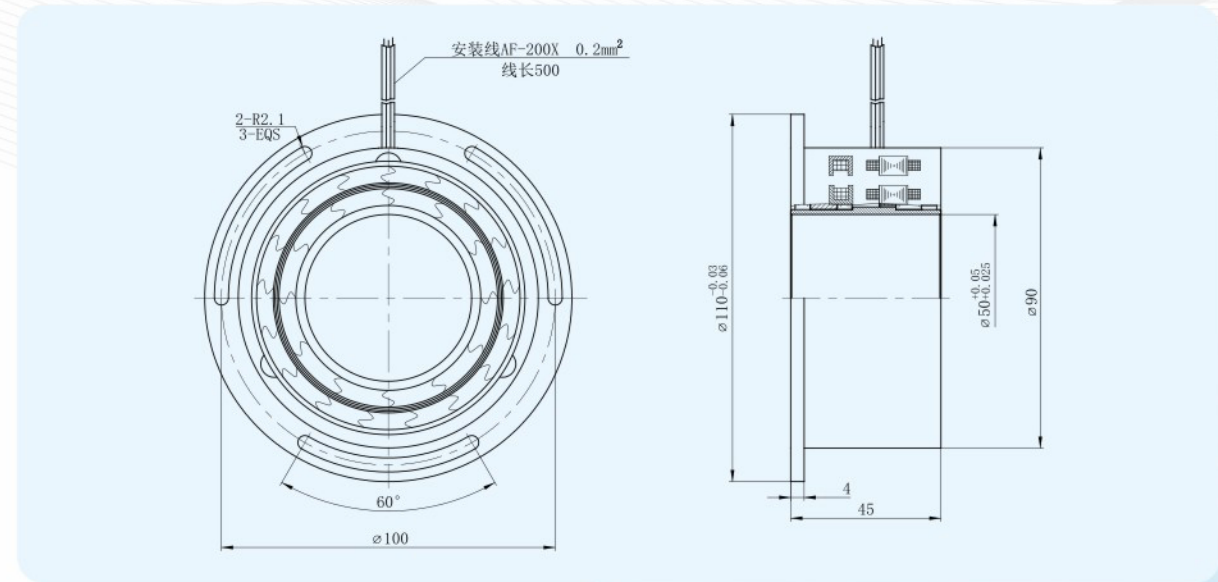
绕线式 | 110系列

Brushless resolver 110 series
110XFW975 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	-22° ± 3°
输入阻抗(Input impedance)	(225 ± 34) Ω
输出阻抗(Output impedance)	(576 ± 86) Ω
耐电压(Dielectric strength)	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



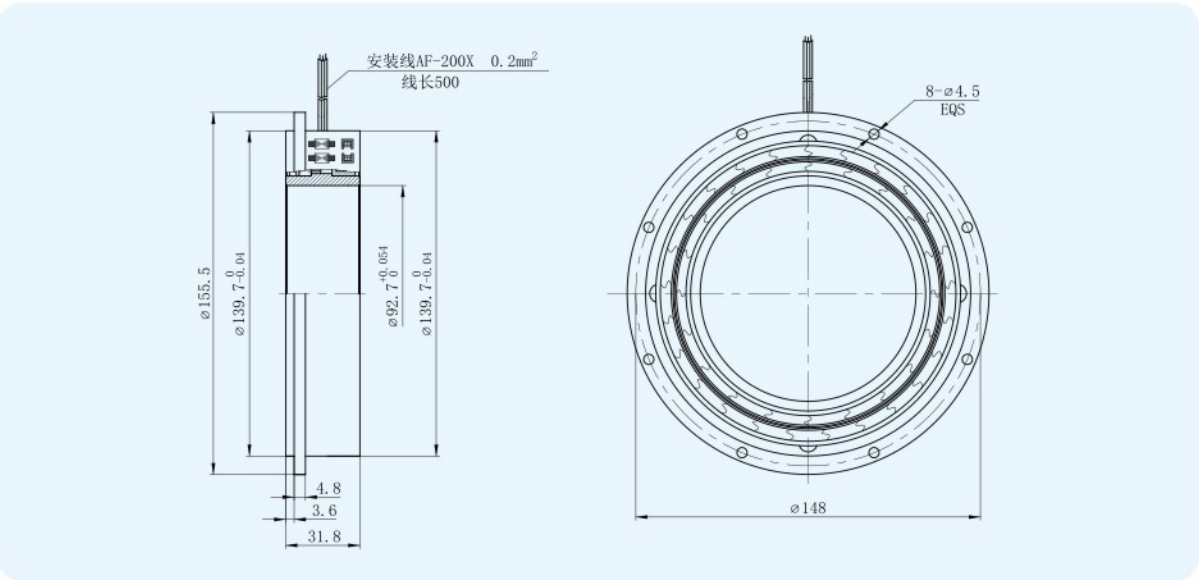
绕线式 | 140系列

Brushless resolver 140 series
140XFW975 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	-22° ± 3°
输入阻抗(Input impedance)	(100 ± 15) Ω
输出阻抗(Output impedance)	(580 ± 87) Ω
耐电压(Dielectric strength)	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)

外形及安装尺寸图 Outline(dimension:mm)



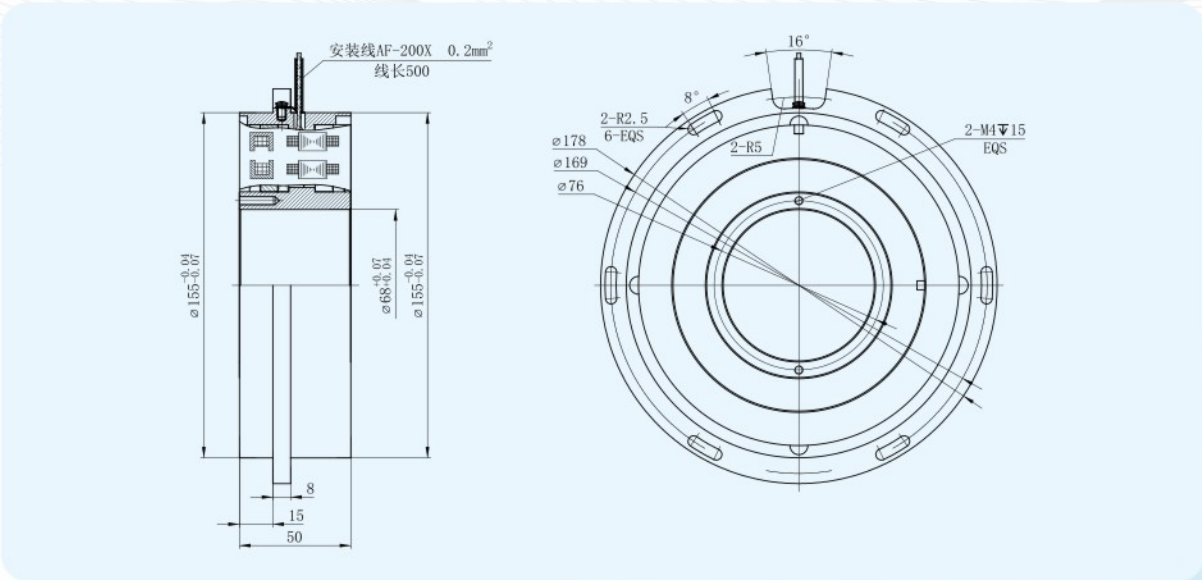
绕线式 | 160系列

Brushless resolver 160 series



主要参数	main parameters	
型号 (Type)	160XZW001	160XFDW9756
极对数 (Pole pairs)	1	6
激磁电压 (Input voltage)	AC 7Vrms	AC 7Vrms
激磁频率(Input frequency)	10KHz	10KHz
变压比 (Transformation ratio)	0.5 ± 10%	0.5 ± 10%
电气误差 (Accuracy)	± 10' max	± 3' max
相位移 (Phase shift)	28.8° ± 3°	0° ± 15°
输入阻抗(Input impedance)	(150 ± 23) Ω	(115 ± 17) Ω
输出阻抗(Output impedance)	(980 ± 147) Ω	(820 ± 123) Ω
耐电压(Dielectric strength)	AC 500V 1min	AC 500V 1min
绝缘电阻(Insulation resistance)	250MΩ MIN	250MΩ MIN
允许最大转速(Max operating speed)	20000 rpm	10000 rpm
工作温度范围(Operating temperature range)	-55℃ ~ +155℃	-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图 Outline(dimension:mm)



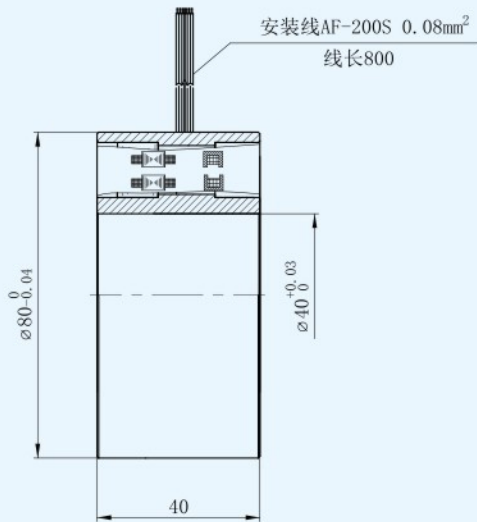
双通道旋变 | 80 系列

Two speed resolver 80 series
J80XFSW54532A >>



主要参数			main parameters
极对数 (Pole pairs)		1:32	
激磁电压 (Input voltage)		AC 4Vrms	
激磁频率(Input frequency)		5KHz	
变压比 (Transformation ratio)		0.5 ± 10%	
电气误差 (Accuracy)	粗机	± 30' max	
	精机	± 30" max	
相位移 (Phase shift)	粗机	7° ± 3°	
	精机	24° ± 3°	
输入阻抗(Input ipedance)	粗机	(63 ± 9) Ω	
	精机	(63 ± 9) Ω	
输出阻抗(Output impedance)	粗机	(510 ± 77) Ω	
	精机	(730 ± 110) Ω	
耐电压(Dielectric strength)		AC 500V 1min	
绝缘电阻(Insulation resistance)		250MΩ MIN	
允许最大转速(Max operating speed)		2250 rpm	
工作温度范围(Operating temperature range)		-55℃ ~ +155℃	
备注(Note)		转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图

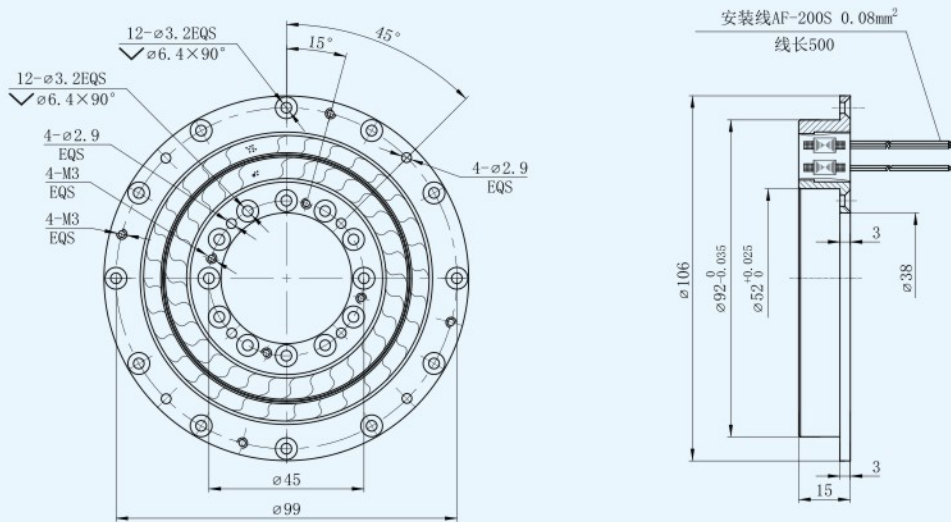


双通道旋变 | 90 系列

Two speed resolver 90 series
J90XFS24532 >>

主要参数			main parameters
极对数 (Pole pairs)		1:32	
激磁电压 (Input voltage)		AC 4Vrms	
激磁频率(Input frequency)		2KHz	
变压比 (Transformation ratio)		0.5 ± 10%	
电气误差 (Accuracy)	粗机	± 25' max	
	精机	± 15" max	
相位移 (Phase shift)	粗机	0° ± 20°	
	精机	0° ± 30°	
输入阻抗(Input ipedance)	粗机	≥ 1500 Ω	
	精机	≥ 150 Ω	
输出阻抗(Output impedance)	粗机	≤ 1500 Ω	
	精机	≤ 1000 Ω	
耐电压(Dielectric strength)		AC 500V 1min	
绝缘电阻(Insulation resistance)		250MΩ MIN	
允许最大转速(Max operating speed)		2000 rpm	
工作温度范围(Operating temperature range)		-55℃ ~ +155℃	
备注(Note)		转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图



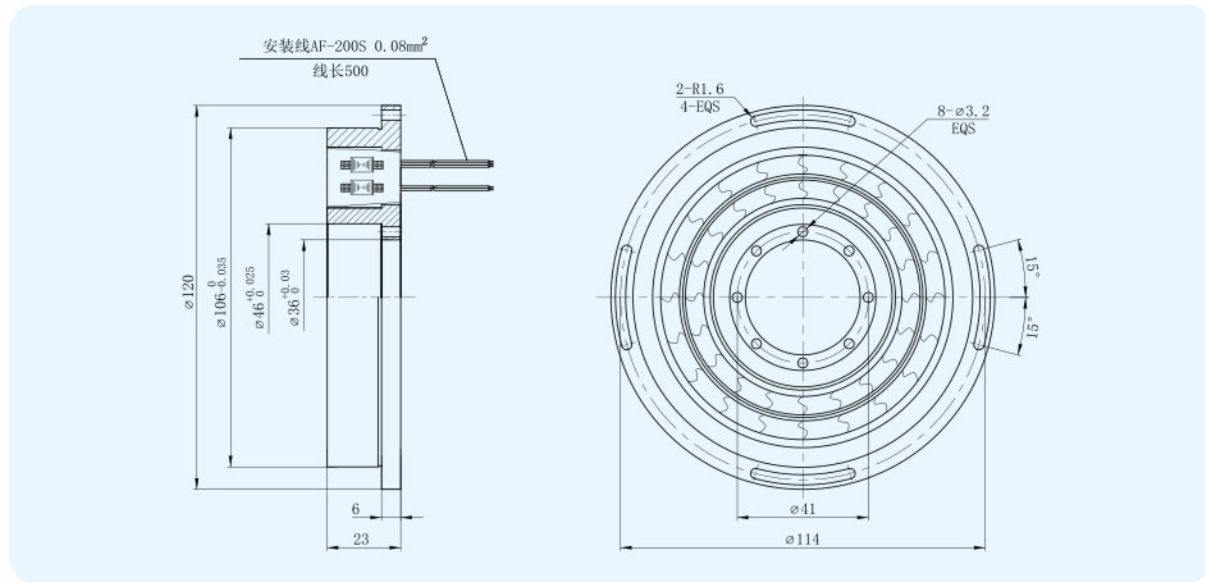
双通道旋变 | 106 系列

Two speed resolver 106 series

J106XFS02658 >>

主要参数		main parameters
极对数 (Pole pairs)		1:8
激磁电压 (Input voltage)		AC 26Vrms
激磁频率(Input frequency)		400Hz
变压比 (Transformation ratio)		0.461 ± 10%
电气误差 (Accuracy)	粗机	± 30' max
	精机	± 1' max
相位移 (Phase shift)	粗机	8° ± 3°
	精机	30° ± 3°
输入阻抗(Input ipedance)	粗机	(3270 ± 491) Ω
	精机	(390 ± 59) Ω
输出阻抗(Output impedance)	粗机	(1100 ± 165) Ω
	精机	(240 ± 36) Ω
耐电压(Dielectric strength)		AC 500V 1min
绝缘电阻(Insulation resistance)		250MΩ MIN
允许最大转速(Max operating speed)		750 rpm
工作温度范围(Operating temperature range)		-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图 Outline(dimension:mm)



双通道旋变 | 128 系列

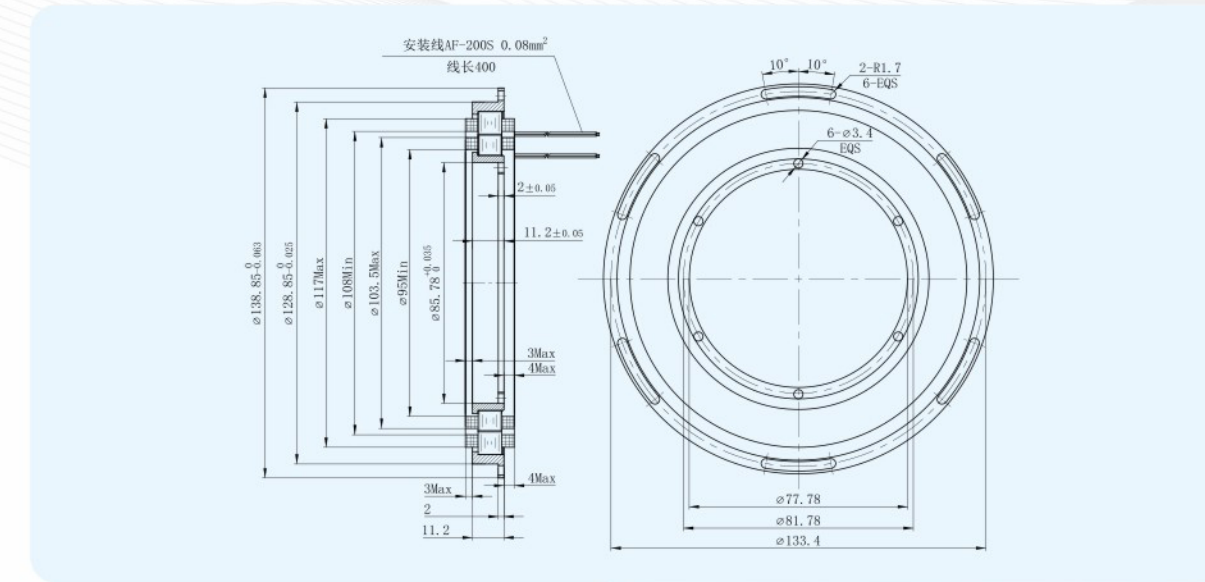
Two speed resolver 128 series

J128XFS001 >>



主要参数		main parameters
极对数 (Pole pairs)		1:16
激磁电压 (Input voltage)		AC 3.8Vrms
激磁频率(Input frequency)		2400Hz
变压比 (Transformation ratio)		0.526 ± 10%
电气误差 (Accuracy)	粗机	± 10' max
	精机	± 15" max
相位移 (Phase shift)	粗机	8° ± 3°
	精机	17° ± 3°
输入阻抗(Input ipedance)	粗机	(1700 ± 255) Ω
	精机	(290 ± 44) Ω
输出阻抗(Output impedance)	粗机	(430 ± 65) Ω
	精机	(190 ± 29) Ω
耐电压(Dielectric strength)		AC 500V 1min
绝缘电阻(Insulation resistance)		250MΩ MIN
允许最大转速(Max operating speed)		2250 rpm
工作温度范围(Operating temperature range)		-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图 Outline(dimension:mm)



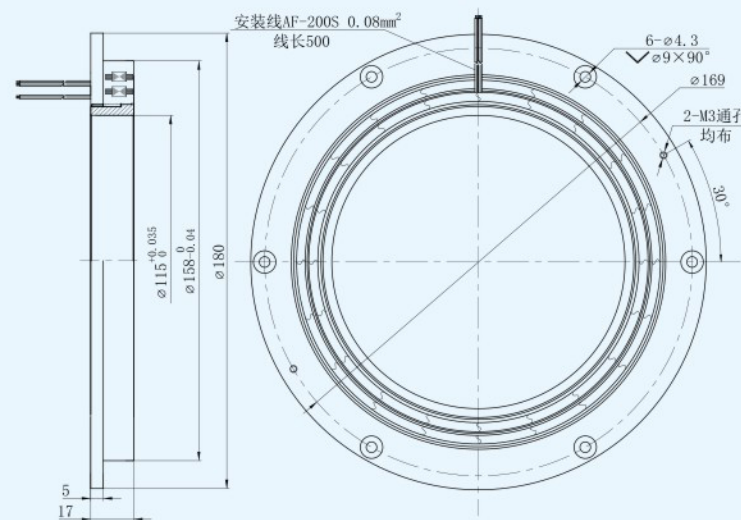
双通道旋变 | 158系列

Two speed resolver 158 series

J158XFS002 >>

主要参数		main parameters
极对数 (Pole pairs)		1:16
激磁电压 (Input voltage)		AC 26Vrms
激磁频率(Input frequency)		400Hz
变压比 (Transformation ratio)		0.461 ± 10%
电气误差 (Accuracy)	粗机	± 20' max
	精机	± 15" max
相位移 (Phase shift)	粗机	17° ± 3°
	精机	43° ± 3°
输入阻抗(Input ipedance)	粗机	(2170 ± 326) Ω
	精机	(220 ± 33) Ω
输出阻抗(Output impedance)	粗机	(1310 ± 197) Ω
	精机	(470 ± 71) Ω
耐电压(Dielectric strength)		AC 500V 1min
绝缘电阻(Insulation resistance)		250MΩ MIN
允许最大转速(Max operating speed)		300 rpm
工作温度范围(Operating temperature range)		-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图 Outline(dimension:mm)



双通道旋变 | 168系列

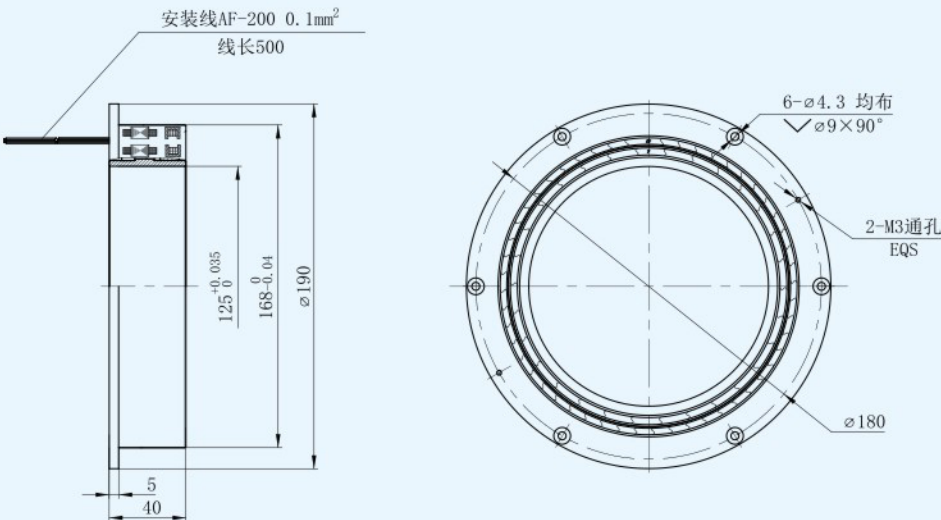
Two speed resolver 168 series

J168XFSW24516 >>



主要参数		main parameters
极对数 (Pole pairs)		1:16
激磁电压 (Input voltage)		AC 3.8Vrms
激磁频率(Input frequency)		2400Hz
变压比 (Transformation ratio)		0.526 ± 10%
电气误差 (Accuracy)	粗机	± 30' max
	精机	± 25" max
相位移 (Phase shift)	粗机	20° ± 3°
	精机	30° ± 3°
输入阻抗(Input ipedance)	粗机	(130 ± 20) Ω
	精机	
输出阻抗(Output impedance)	粗机	(1200 ± 180) Ω
	精机	(750 ± 113) Ω
耐电压(Dielectric strength)		AC 500V 1min
绝缘电阻(Insulation resistance)		250MΩ MIN
允许最大转速(Max operating speed)		1500 rpm
工作温度范围(Operating temperature range)		-55℃ ~ +155℃
备注(Note)	转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图 Outline(dimension:mm)



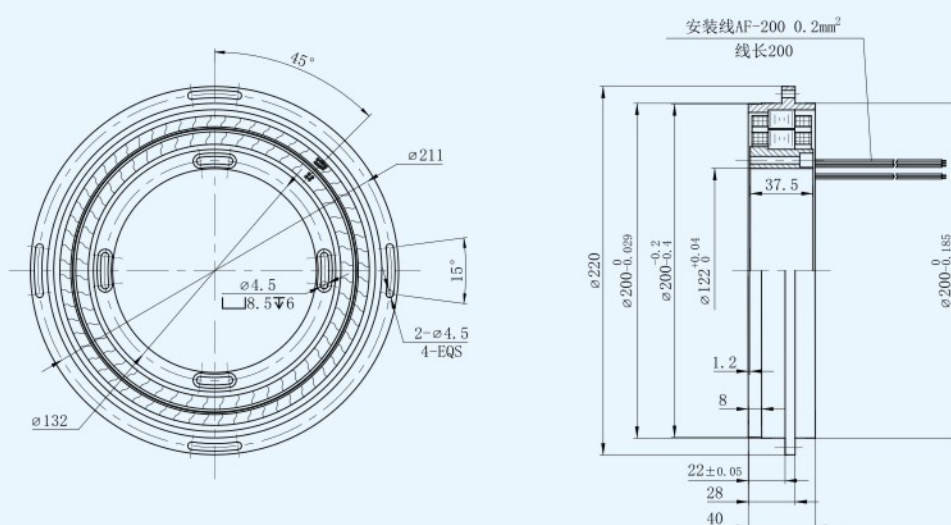
双通道旋变 | 200系列

Two speed resolver 200 series

J200XFS6411M01 >>

主要参数		main parameters	
极对数 (Pole pairs)		1:64	
激磁电压 (Input voltage)		AC 15Vrms	
激磁频率(Input frequency)		1000Hz	
变压比 (Transformation ratio)		0.333 ± 10%	
电气误差 (Accuracy)	粗机	± 15' max	
	精机	± 10" max(0级) / ± 20" max (1级)	
相位移 (Phase shift)	粗机	0° ± 20°	
	精机	0° ± 40°	
输入阻抗(Input ipedance)	粗机	(6200 ± 930) Ω	
	精机	(200 ± 30) Ω	
输出阻抗(Output impedance)	粗机	(1200 ± 180) Ω	
	精机	(1200 ± 180) Ω	
耐电压(Dielectric strength)		AC 500V 1min	
绝缘电阻(Insulation resistance)		250MΩ MIN	
允许最大转速(Max operating speed)		200 rpm	
工作温度范围(Operating temperature range)		-55℃ ~ +155℃	
备注(Note)		转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图 Outline(dimension:mm)



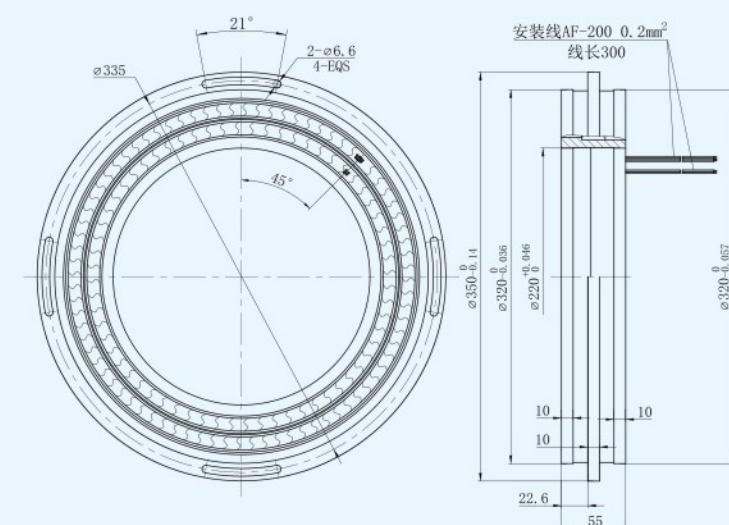
双通道旋变 | 320系列

Two speed resolver 320 series

J320XFS6411M01 >>

主要参数		main parameters	
极对数 (Pole pairs)		1:64	
激磁电压 (Input voltage)		AC 15Vrms	
激磁频率(Input frequency)		1000Hz	
变压比 (Transformation ratio)		0.333 ± 10%	
电气误差 (Accuracy)	粗机	± 15' max	
	精机	± 5' max (0级) / ± 10' max (1级)	
相位移 (Phase shift)	粗机	0° ± 25°	
	精机	0° ± 35°	
输入阻抗(Input ipedance)	粗机	(7800 ± 1170) Ω	
	精机	(235 ± 35) Ω	
输出阻抗(Output impedance)	粗机	(1500 ± 225) Ω	
	精机	(560 ± 84) Ω	
耐电压(Dielectric strength)		AC 500V 1min	
绝缘电阻(Insulation resistance)		250MΩ MIN	
允许最大转速(Max operating speed)		200 rpm	
工作温度范围(Operating temperature range)		-55℃ ~ +155℃	
备注(Note)		转子内径可根据用户需求定制 (Rotor ID could be customized.)	

外形及安装尺寸图 Outline(dimension:mm)



一体式 | 20 系列

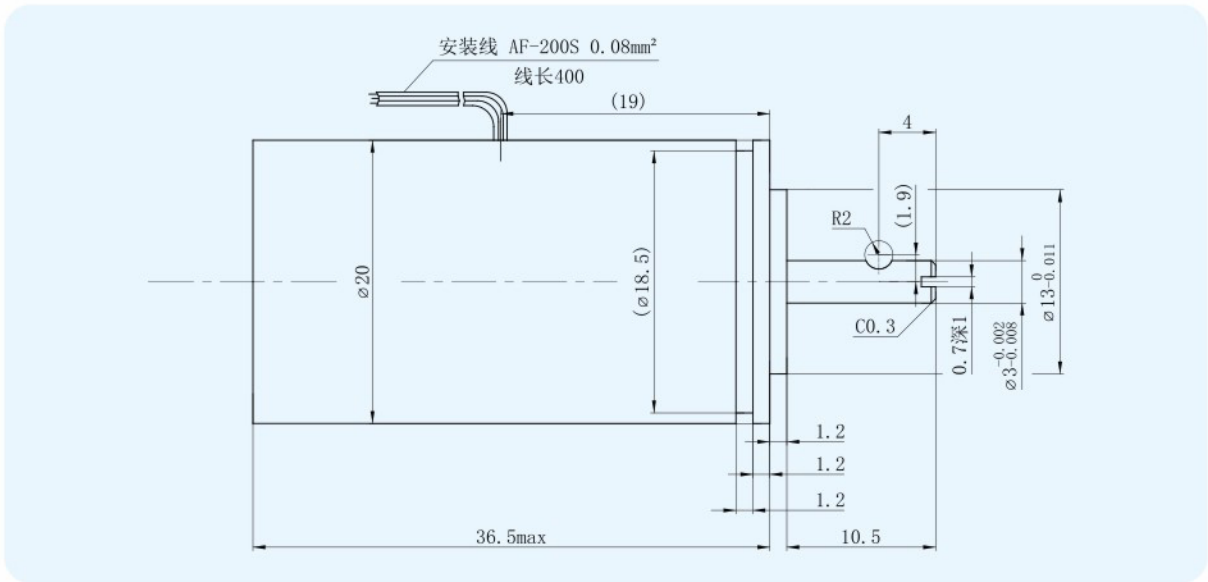
Fabricated resolver 20 series

J20XFW925 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 2.4Vrms
激磁频率(Input frequency)	10KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 10' max
相位移 (Phase shift)	6° ± 3°
输入阻抗(Input impedance)	(433 ± 65) Ω
输出阻抗(Output impedance)	(440 ± 65) Ω
耐电压(Dielectric strength)	AC 250Vrms 1min
绝缘电阻(Insulation resistance)	100MΩ MIN
工作温度范围(Operating temperature range)	-55℃ ~ +125℃

外形及安装尺寸图 Outline(dimension:mm)



一体式 | 27 系列

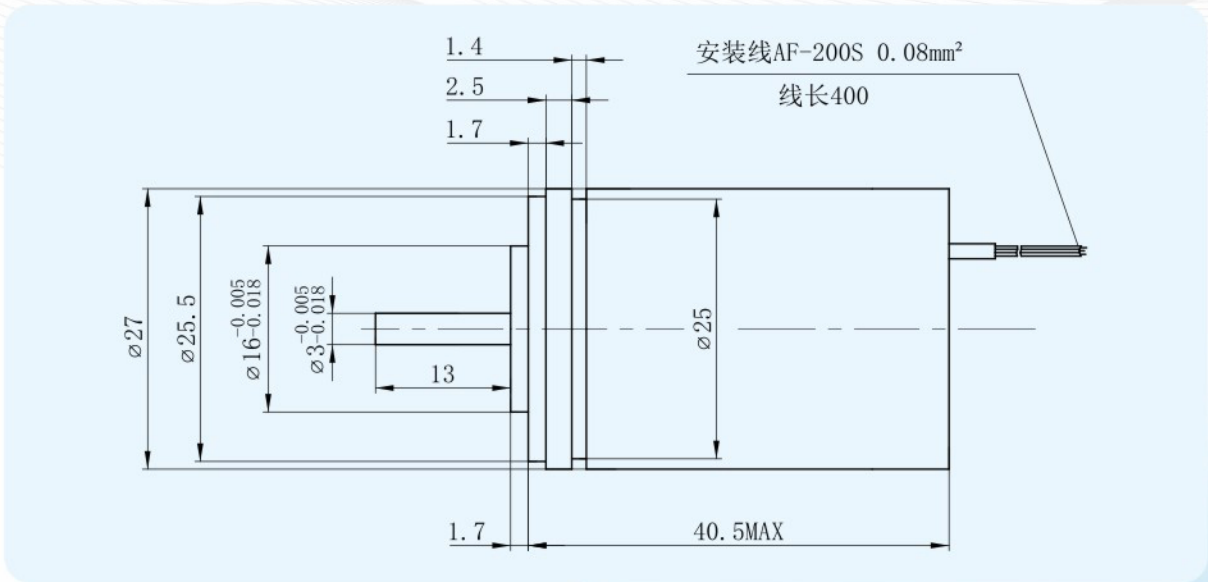
Fabricated resolver 27 series

J27XFW275 >>



主要参数	main parameters
极对数 (Pole pairs)	1
激磁电压 (Input voltage)	AC 7Vrms
激磁频率(Input frequency)	1.8KHz
变压比 (Transformation ratio)	0.5 ± 10%
电气误差 (Accuracy)	± 7' max
相位移 (Phase shift)	34° ± 3°
输入阻抗(Input impedance)	(220 ± 33) Ω
输出阻抗(Output impedance)	(395 ± 60) Ω
耐电压(Dielectric strength)	AC 250Vrms 1min
绝缘电阻(Insulation resistance)	100MΩ MIN
工作温度范围(Operating temperature range)	-40℃ ~ +140℃

外形及安装尺寸图 Outline(dimension:mm)



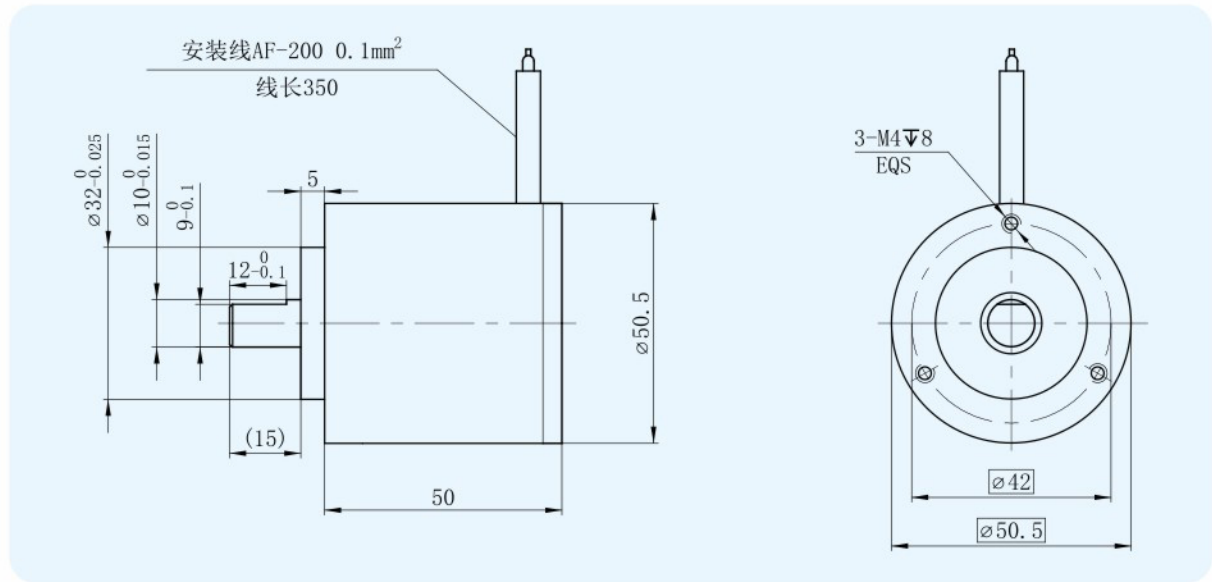
一体式 | 51 系列

Fabricated resolver 51 series



主要参数	main parameters	
型号 (Type)	J51XFW975	J51XFDW9754
极对数 (Pole pairs)	1	4
激磁电压 (Input voltage)	AC 2.4Vrms	AC 2.4Vrms
激磁频率(Input frequency)	10KHz	10KHz
变压比 (Transformation ratio)	$0.5 \pm 10\%$	$0.5 \pm 10\%$
电气误差 (Accuracy)	$\pm 10'$ max	$\pm 5'$ max
相位移 (Phase shift)	$0^\circ \pm 10^\circ$	$0^\circ \pm 5^\circ$
输入阻抗(Input impedance)	$(100 \pm 15) \Omega$	$(160 \pm 32) \Omega$
输出阻抗(Output impedance)	$(370 \pm 56) \Omega$	$(1300 \pm 260) \Omega$
耐电压(Dielectric strength)	AC 500Vrms 1min	AC 500Vrms 1min
绝缘电阻(Insulation resistance)	250M Ω MIN	250M Ω MIN
工作温度范围(Operating temperature range)	$-40^\circ\text{C} \sim +120^\circ\text{C}$	$-40^\circ\text{C} \sim +120^\circ\text{C}$

外形及安装尺寸图 Outline(dimension:mm)



一体式 | 58 系列

Fabricated resolver 58 series

J58XFW975C >>



主要参数	main parameters	
极对数 (Pole pairs)	1	
激磁电压 (Input voltage)	AC 7Vrms	
激磁频率(Input frequency)	10KHz	
变压比 (Transformation ratio)	$0.5 \pm 10\%$	
电气误差 (Accuracy)	$\pm 12'$ (P-P)	
相位移 (Phase shift)	$-3^\circ \pm 3^\circ$	
输入阻抗(Input impedance)	$(130 \pm 20) \Omega$	
输出阻抗(Output impedance)	$(325 \pm 30) \Omega$	
耐电压(Dielectric strength)	AC 500Vrms 1min	
绝缘电阻(Insulation resistance)	250M Ω MIN	
工作温度范围(Operating temperature range)	$-30^\circ\text{C} \sim +95^\circ\text{C}$	

外形及安装尺寸图 Outline(dimension:mm)

