



## 品名的阅读方法 MODEL NO. CODING

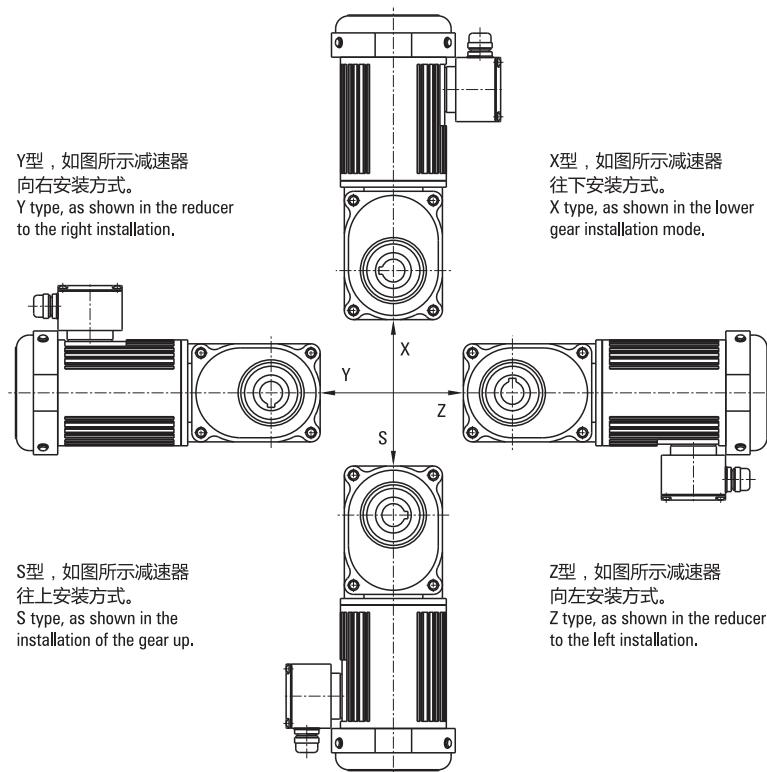
### ■ 电动机 Motor

**F3** - **25** **H** **30** **L** **S** - **100** - **S** - **B**

①	系列 Series	F2: F2系列 F3: F3系列	F2: F2 Series F3: F3 Series
②	出轴直径或孔径	Shaft diameter or bore diameter	
③	出轴类型 ( 实心轴见附图 ) H: 空心轴 A: 实心轴	The shaft type (Solid shaft attached) H: Hollow shaft A: Solid shaft	
④	减速比 Reduction ratio	30:1	
⑤	L: 左出轴 R: 右出轴 T: 双出轴 ( 中空轴省略 )	L: Left axis R: Right out axis T: Double output shaft (Hollow shaft omitted)	
⑥	缩框型箱体 ( 标准型省略 )	Shrink box type box (Standard type omitted)	
⑦	额定输出功率 Rated output power	100:100W	
⑧	F2电源 Power supply	C (单相 Single-phase 220V50/60Hz)	
		H (单相 Single-phase 220V/60Hz)	
		A (单相 Single-phase 110V50/60Hz)	
		E (单相 Single-phase 110V/60Hz)	
		S (3PH-220V50/60Hz)	
		S3 (3PH-380V50/60Hz)	
		U (3PH-220/380V50/60Hz)	
⑨	F3电源 Power supply	S (3PH-220V50/60Hz)	
		S3 (3PH-380V50/60Hz)	
		U (3PH-220/380V50/60Hz)	
⑨	附加装置 Attachment unit	B: 刹车 FF: 强制风扇 F: 风扇 T: 接线盒 B: Brake FF: Axial flow fan F: Fan T: Connection box	

注 : ⑨中F、T只针对 F2产品 , F3默 认自带风扇 , 接线盒。Note: Line ⑨ is only refer to F2series. F3 is preinstalled with fan and terminal box.

### ■ 订单需注明安装方向 Order to indicate the direction of installation





## 采用了偏轴伞齿轮的高强度、高转矩电动机 High strength and high torque motor with eccentric shaft bevel gear

※偏轴伞齿轮仅限于直交轴减速电动机 The eccentric shaft bevel gear is limited to right-angle gear motor

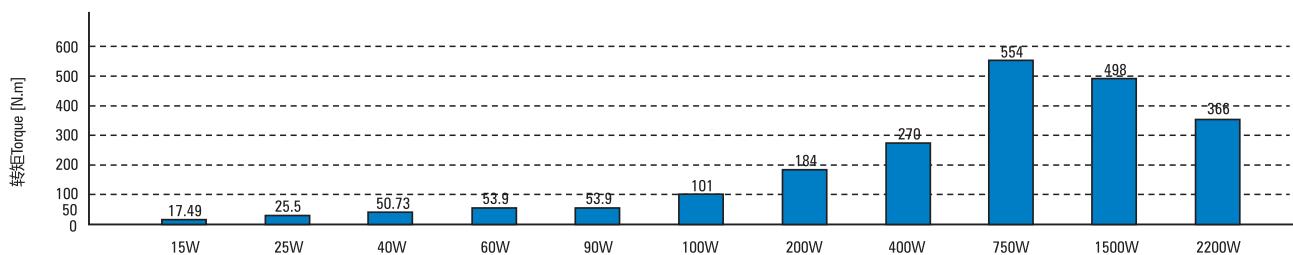
高功率电动机结合高强度偏轴伞齿轮减速机的产品。高转矩的减速电动机可以满足顾客所需的广泛用途。

High power motor combined with high strength eccentric shaft bevel gear reducer product. High torque reduction motor can meet the needs of customers for a wide range of purposes.

### ■ 容许转矩 Allowable Torque

以下图表为各功率的减速机电动机所能发挥的最大容许转矩。The following chart shows the maximum allowable torque the gear motor can output.

#### ● 直交轴 Right-angle shaft



### 丰富的减速比产品阵容 Rich range of gearmotors and ratios

减速比从5~240，共备有17种类丰富且划分精细的机型。可根据用途，从直交轴（中空轴、中实轴）的各输出轴中选择最适合的产品。

Reduction ratio from 5~240, a total of 17 types of rich and finely divided models. According to the utility, the most suitable product is selected from each output shaft of the parallel axis, the direct cross shaft (the hollow shaft and the middle solid shaft).

#### ● 直交轴（中空轴） Right-angle shaft(hollow shaft)



F2减速比共有14种类

There are 14 types of reduction ratio

10、15、20、25、30、40、50、60、80、100、120、160、200、240

#### ● 直交轴（中实轴） Right-angle shaft(solid shaft)



F2减速比共有14种类

There are 14 types of reduction ratio

10、15、20、25、30、40、50、60、80、100、120、160、200、240



F3减速比共有17种类

There are 17 types of reduction ratio

5、7.5、10、12、15、20、25、30、40、50、60、80、100、120、160、200、240



F3减速比共有17种类

There are 17 types of reduction ratio

5、7.5、10、12、15、20、25、30、40、50、60、80、100、120、160、200、240



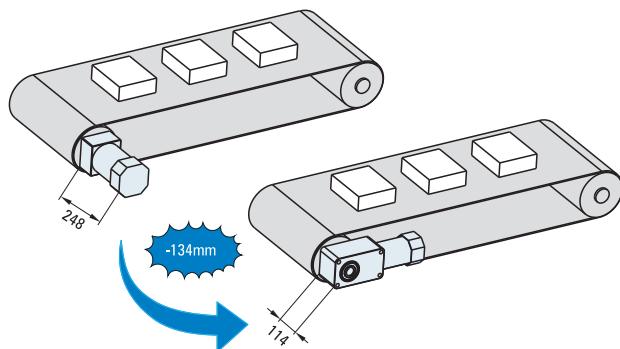
## 实现装置小型化，节约开发成本 To achieve miniaturization, saving development costs

(直交轴减速电动机) (Right angle speed reducer motor)

### ■ 最适于节省空间 The Most Suitable To Save Space

负载轴与电动机部分成直角，故可节省作业空间。

The load shaft and the electric motor are at right angles, so the working space can be saved.



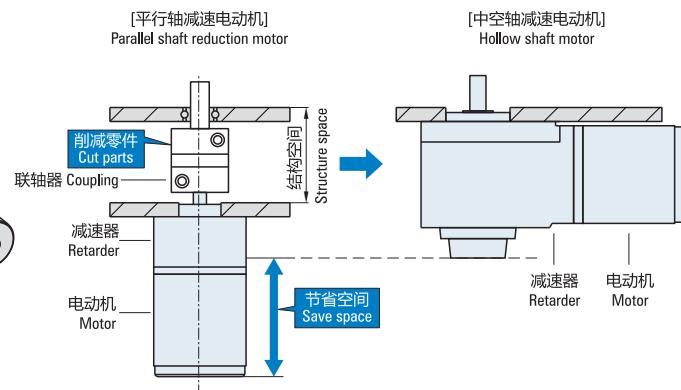
图为输出功率200W，减速比5的平行轴减速电动机与直交轴减速电动机的比较。

The figure is the comparison of the output power 200W, the reduction ratio of 5 parallel shaft motor and the speed reduction motor.

### ■ 节约成本 Cost Savings

中空轴减速电动机还简化了连结零件，从而可减少零件成本和组装工时。

The hollow shaft reduction motor also simplifies the connecting parts, thereby reducing the cost of parts and assembling working hours.



## 安装自由度高的设计 High degree of freedom of the design

(直交轴减速电动机) (Direct axis speed reducer motor)

### ■ 左右同心轴构造 Left And Right Concentric Axis Structure

减速机的输出轴位于安装面上下方向的中心处的构造。

安装在输送机等装置的时候，不管安装方向是向左还是向右，都不需要改变安装孔的位置。

The output shaft of the speed reducer is arranged at the center of the upper and the lower direction of the mounting surface.

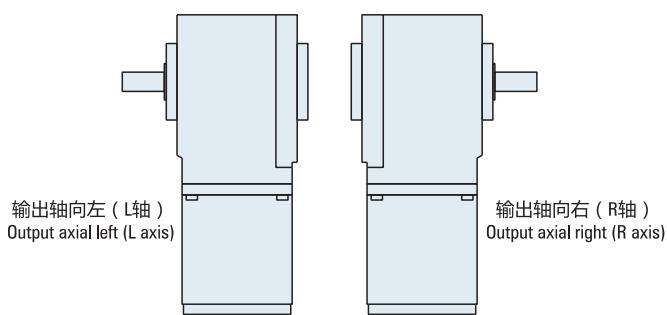
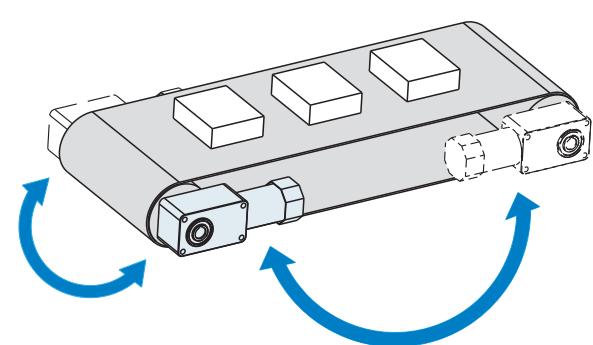
When installed in the conveyor and other devices, whether the installation direction is to the left or right, do not need to change the location of the installation hole.

## 适合用于与变频器组合使用

Suitable for use in combination with frequency converter

可实现低速至高速的广泛速度控制。而且速度受负载影响较小，速度控制更加稳定。

Can achieve low speed to high speed of the extensive speed control. And the speed is less affected by the load, the speed control is more stable.







## F2尺寸图

### F2 SIZE CHART



#### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F2-12H□-15-S(TB)	15	200	60	0.12	0.09	1550	0.16	0.30	F
		220	50	0.13	0.11	1350	0.26	0.35	
		380	50	0.08	0.11	1350	0.26	0.20	
		460	60	0.08	0.09	1680	0.30	0.22	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	电容器 Capacitor	绝缘等级 Insulation Grade	
	W	V	Hz	A	N.m	r/min	N.m	A	UF		
F2-15A□-15-C(TB)	15	200	60	0.15	0.09	1680	0.08	0.33	1.20	F	
		220	50	0.15	0.10	1380	0.08	0.35			
		110	50	0.30	0.10	1380	0.08	0.68	5.00		
		110	60	0.34	0.09	1680	0.08	0.65			

功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance	
			r/min	N.m	kgf.m	N			N	kgf
15	12/15	10	150	0.810	0.08	343	35	88	9	
		15	100	1.210	0.12	441	45	108	11	
		20	75.0	1.620	0.16	539	55	137	14	
		25	60.0	2.020	0.20	588	60	147	15	
		30	50.0	2.430	0.24	686	70	177	18	
		40	37.5	3.240	0.33	784	80	196	20	
		50	30.0	4.050	0.41	882	90	226	23	
		60	25.0	4.860	0.49	882	90	226	23	
		80	18.8	5.830	0.59	980	100	245	25	
		100	15.0	7.290	0.74	980	100	245	25	
		120	12.5	8.740	0.89	1080	110	275	28	
		160	9.40	11.66	1.18	1080	110	275	28	
		200	7.50	14.58	1.48	1080	110	275	28	
		240	6.30	17.49	1.78	1080	110	275	28	



## F2尺寸图

### F2 SIZE CHART

#### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F2-12H□-25-S(TB)	25	200	60	0.17	0.16	1450	0.22	0.36	F
		220	50	0.18	0.18	1300	0.34	0.43	
	380	50	0.11	0.18	1300	0.34	0.24		
		460	60	0.10	0.15	1650	0.36	0.27	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	电容器 Capacitor	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	UF	
F2-15A□-25-C(TB)	25	200	60	0.21	0.15	1620	0.09	0.46	1.50	F
		220	50	0.26	0.18	1320	0.09	0.52		
F2-15A□-25-A(TB)	110	50	0.48	0.18	1320	0.09	0.93	6.00		F
		60	0.43	0.15	1620	0.09	0.83			

功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance	
			r/min	50Hz	N.m	kgf.m			轴向力负载 Axial Force Load	N
25	12/15	i	10	150	1.450	0.14	343	35	88	9
			15	100	2.180	0.22	441	45	108	11
			20	75.0	2.910	0.29	539	55	137	14
			25	60.0	3.640	0.37	588	60	147	15
			30	50.0	4.370	0.44	686	70	177	18
			40	37.5	5.830	0.59	784	80	196	20
			50	30.0	7.290	0.74	882	90	226	23
			60	25.0	8.740	0.89	882	90	226	23
			80	18.8	10.49	1.07	980	100	245	25
			100	15.0	13.12	1.33	980	100	245	25
			120	12.5	15.74	1.60	1080	110	275	28
			160	9.40	20.99	2.14	1080	110	275	28
			※200	7.50	25.50	2.60	1080	110	275	28
			※240	6.30	25.50	2.60	1080	110	275	28

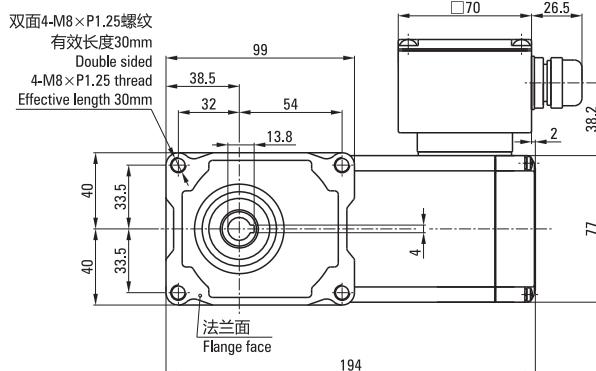
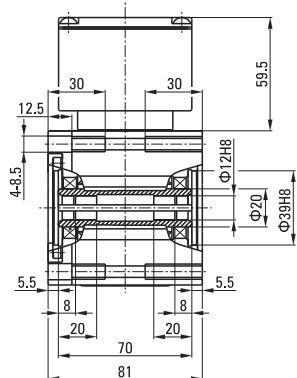
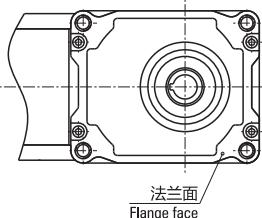
注 : 带※号的为转矩力限制机种 , 使用时请阅读本表。Note: The number for the torque limit model, please read this table.



## 外形图 OUTLINE DRAWING

■ F2-12H10~240-15~25-C-T  
F2-12H10~240-15~25-S-T

F2-12H10~240-15~25-A-T  
F2-12H10~240-15~25-S3-T

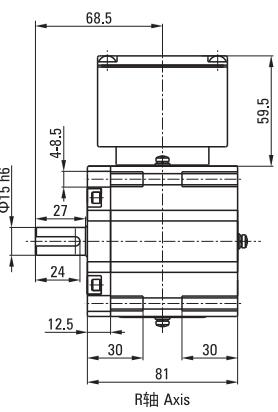
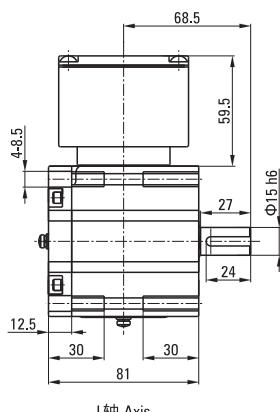
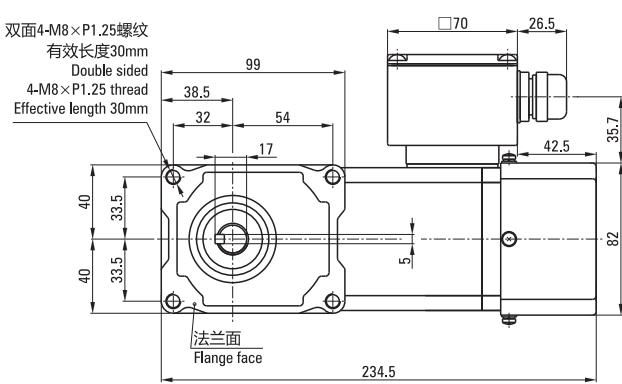
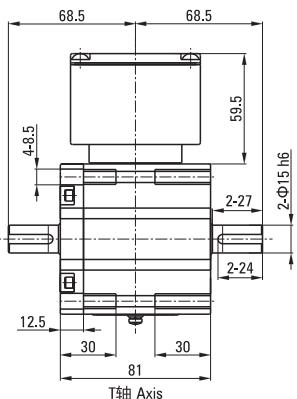
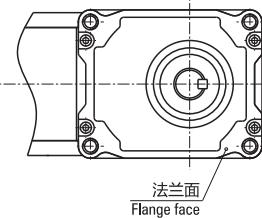


注：常规产品不带接线盒 Note: Conventional products without wiring box

■ F2-15A10<sup>L</sup>~240<sup>R</sup>-15~25-C-TB  
F2-15A10<sup>L</sup>~240<sup>R</sup>-15~25-S3-TB

F2-15A10<sup>R</sup>~240<sup>L</sup>-15~25-A-TB

F2-15A10<sup>R</sup>~240<sup>L</sup>-15~25-S-TB



注：常规产品不带接线盒 Note: Conventional products without wiring box



## F2尺寸图

### F2 SIZE CHART



#### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
F2-15H□-40-S(TB)	40	200	60	0.27	0.25	1500	0.62	0.76	F
		220	50	0.29	0.29	1320	0.90	0.90	
		380	50	0.17	0.29	1320	0.90	0.56	
		460	60	0.16	0.23	1650	1.00	0.62	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	电容器 Capacitor	绝缘等级 Insulation Grade	
F2-18A□-40-C(TB)	40	200	60	0.33	0.23	1650	0.20	0.80	2.50	F	
		220	50	0.33	0.29	1350	0.20	0.85			
		110	50	0.65	0.29	1350	0.20	1.70	10.0		
		110	60	0.65	0.23	1650	0.20	1.50			

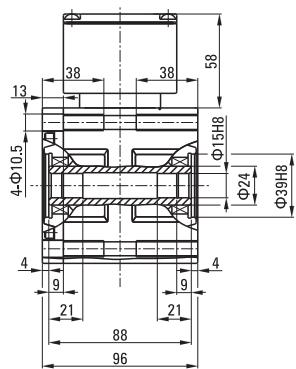
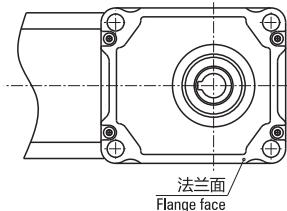
功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 ReductionRatio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance	
			r/min		N.m	kgf.m	N		kgf	N
			W	mm	i	50Hz	50Hz	50Hz	N	kgf
40	15/18	10	150		2.350	0.23	343	35	88	9
		15	100		3.520	0.35	441	45	108	11
		20	75.0		4.690	0.47	539	55	137	14
		25	60.0		5.870	0.59	588	60	147	15
		30	50.0		7.040	0.71	686	70	177	18
		40	37.5		9.390	0.95	784	80	196	20
		50	30.0		11.74	1.19	882	90	226	23
		60	25.0		14.09	1.43	882	90	226	23
		80	18.8		16.91	1.72	980	100	245	25
		100	15.0		21.14	2.15	980	100	245	25
		120	12.5		25.36	2.58	1080	110	275	28
		160	9.40		33.82	3.45	1370	140	343	35
		200	7.50		42.28	4.31	1370	140	343	35
		240	6.30		50.73	5.17	1370	140	343	35



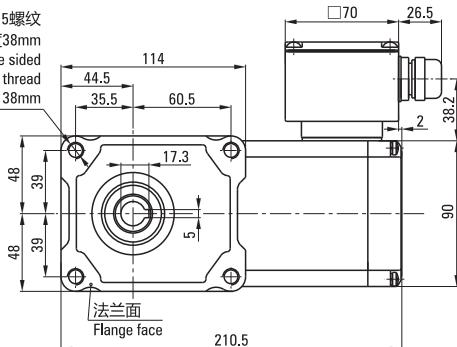
## 外形图 OUTLINE DRAWING

F2-15H10~240-40-C-T  
F2-15H10~240-40-S-T

F2-15H10~240-40-A-T  
F2-15H10~240-40-S3-T



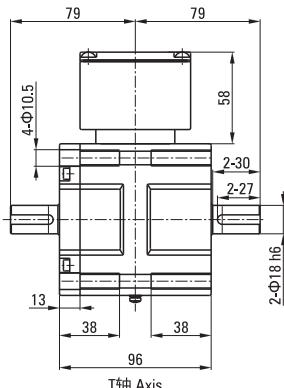
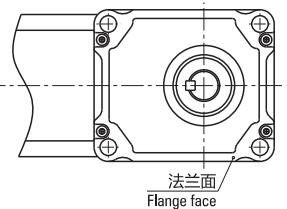
双面4-M10×P1.5螺纹  
有效长度38mm  
Double sided  
4-M10×P1.5 thread  
Effective length 38mm



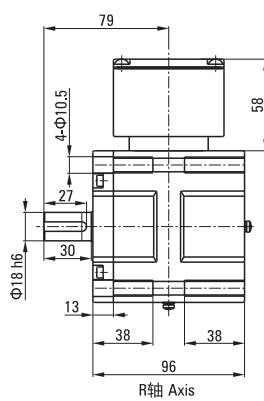
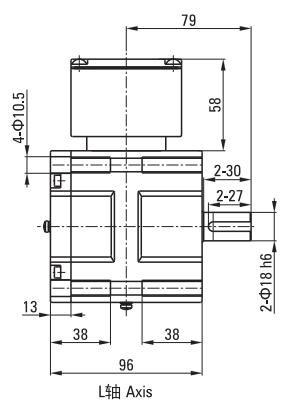
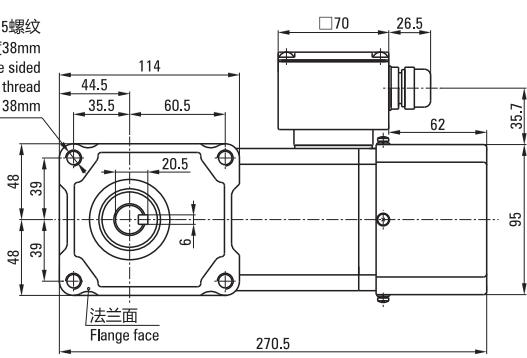
注：常规产品不带接线盒 Note: Conventional products without wiring box

F2-18A10<sup>L</sup><sub>T</sub>~240<sup>L</sup><sub>T</sub>-40-C-TB  
F2-18A10<sup>L</sup><sub>T</sub>~240<sup>L</sup><sub>T</sub>-40-S-TB

F2-18A10<sup>L</sup><sub>T</sub>~240<sup>L</sup><sub>T</sub>-40-A-TB  
F2-18A10<sup>L</sup><sub>T</sub>~240<sup>L</sup><sub>T</sub>-40-S3-TB



双面4-M10×P1.5螺纹  
有效长度38mm  
Double sided  
4-M10×P1.5 thread  
Effective length 38mm



注：常规产品不带接线盒 Note: Conventional products without wiring box



## F2尺寸图

### F2 SIZE CHART



#### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F2-15H□-60-S-F(TB)	60	200	60	0.40	0.36	1600	0.90	1.30	F
		220	50	0.50	0.44	1350	1.40	1.40	
		380	50	0.28	0.44	1350	1.40	0.75	
		460	60	0.28	0.36	1600	1.50	0.85	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	电容器 Capacitor	绝缘等级 Insulation Grade	
	W	V	Hz	A	N.m	r/min	N.m	A	UF		
F2-18A□-60-C-F(TB)	60	200	60	0.47	0.36	1600	0.23	0.95	3.00	F	
		220	50	0.49	0.44	1300	0.23	1.10			
		110	50	1.00	0.44	1300	0.23	2.10	12.0		
		110	60	0.90	0.36	1600	0.23	1.95			

功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance			
			r/min	N.m	kgf.m	N	kgf					
W	mm	i	50Hz	50Hz	50Hz	50Hz	N	kgf	N	kgf		
60	15/18	10	150	3.560	0.36	343	35	108	11			
		15	100	5.340	0.54	441	45	147	15			
		20	75.0	7.120	0.72	539	55	186	19			
		25	60.0	8.910	0.90	588	60	226	23			
		30	50.0	10.69	1.09	686	70	245	25			
		40	37.5	14.25	1.45	784	80	275	28			
		50	30.0	17.82	1.81	882	90	294	30			
		60	25.0	21.38	2.18	882	90	294	30			
		80	18.8	25.66	2.61	1270	130	324	33			
		100	15.0	32.07	3.27	1270	130	324	33			
		120	12.5	38.49	3.92	1370	140	343	35			
		160	9.40	51.32	5.23	1370	140	343	35			
		※200	7.50	53.90	5.50	1370	140	343	35			
		※240	6.30	53.90	5.50	1370	140	343	35			

注：带※号的为转矩力限制机种，使用时请阅读本表。 Note: The number for the torque limit model, please read this table.



## F2尺寸图

### F2 SIZE CHART

#### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F2-15H□-90-S-F(TB)	90	200	60	0.55	0.57	1500	1.30	1.55	F
		220	50	0.68	0.66	1300	1.90	1.75	
		380	50	0.38	0.66	1300	1.90	0.95	
		460	60	0.37	0.54	1600	2.00	1.05	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	电容器 Capacitor	绝缘等级 Insulation Grade	
	W	V	Hz	A	N.m	r/min	N.m	A	UF		
F2-18A□-90-C-F(TB)	90	200	60	0.68	0.55	1550	0.40	1.30	4.50	F	
		220	50	0.75	0.68	1250	0.40	1.40			
		110	50	1.45	0.68	1250	0.40	2.80	20.0		
		110	60	1.45	0.55	1550	0.40	2.60			

功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance			
			r/min	N.m	kgf.m	N	kgf					
W	mm	i	50Hz	50Hz	50Hz	N	kgf	N	kgf			
90	15/18	10	150	5.340	0.54	441	45	108	11			
		15	100	8.010	0.81	588	60	147	15			
		20	75.0	10.69	1.09	735	75	186	19			
		25	60.0	13.36	1.36	882	90	226	23			
		30	50.0	16.03	1.63	980	100	245	25			
		40	37.5	21.38	2.18	1080	110	275	28			
		50	30.0	26.73	1.70	1180	120	294	30			
		60	25.0	32.07	3.27	1180	120	294	30			
		80	18.8	38.49	3.92	1270	130	324	33			
		100	15.0	48.11	4.90	1270	130	324	33			
		※120	12.5	53.90	5.50	1370	140	343	35			
		※160	9.40	53.90	5.50	1370	140	343	35			
		※200	7.50	53.90	5.50	1370	140	343	35			
		※240	6.30	53.90	5.50	1370	140	343	35			

注：带※号的为转矩力限制机种，使用时请阅读本表。Note: The number for the torque limit model, please read this table.

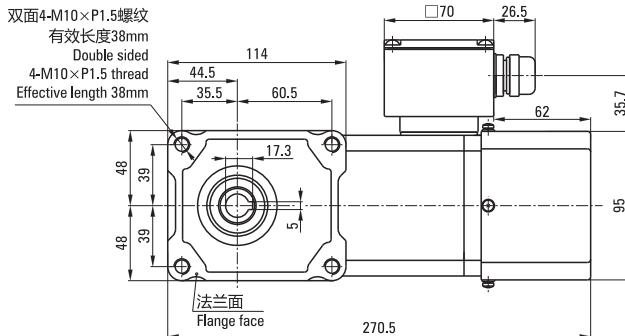
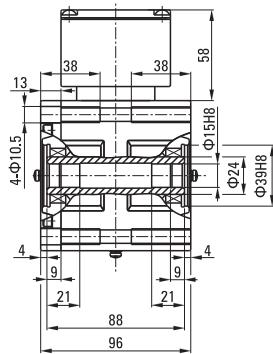
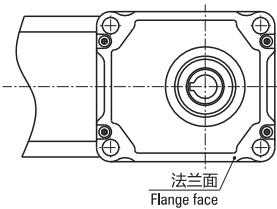


## 外形图 OUTLINE DRAWING

- F2-15H10~240-60~90-C-TF
- F2-15H10~240-60~90-S-TF
- F2-15H10~240-60~90-S-TBF

- F2-15H10~240-60~90-A-TF
- F2-15H10~240-60~90-S3-TF
- F2-15H10~240-60~90-S3-TBF

- F2-15H10~240-60~90-S3-TF
- F2-15H10~240-60~90-A-TBF

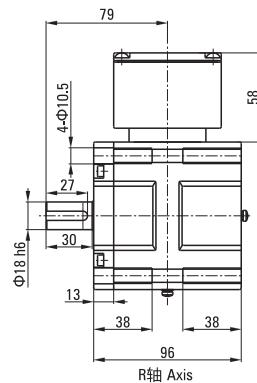
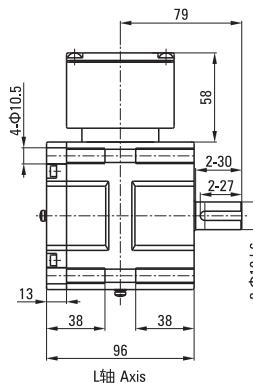
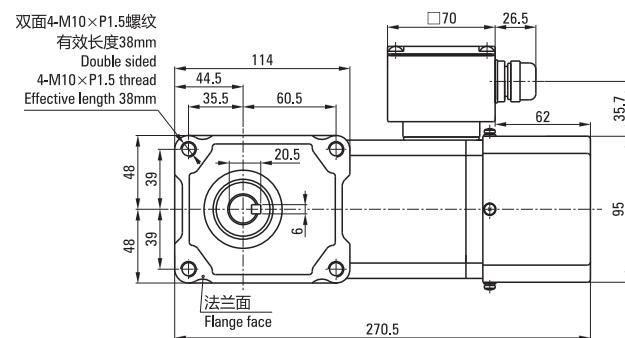
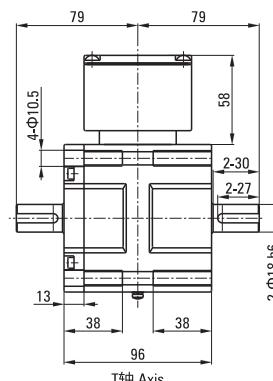
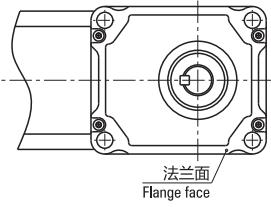


注：常规产品不带接线盒 Note: Conventional products without wiring box

- F2-18A10<sub>L</sub>~240-60~90-C-TF
- F2-18A10<sub>R</sub>~240-60~90-C-TBF
- F2-18A10<sub>T</sub>~240-60~90-S-TBF

- F2-18A10<sub>L</sub>~240-60~90-A-TF
- F2-18A10<sub>R</sub>~240-60~90-A-TBF
- F2-18A10<sub>T</sub>~240-60~90-S3-TBF

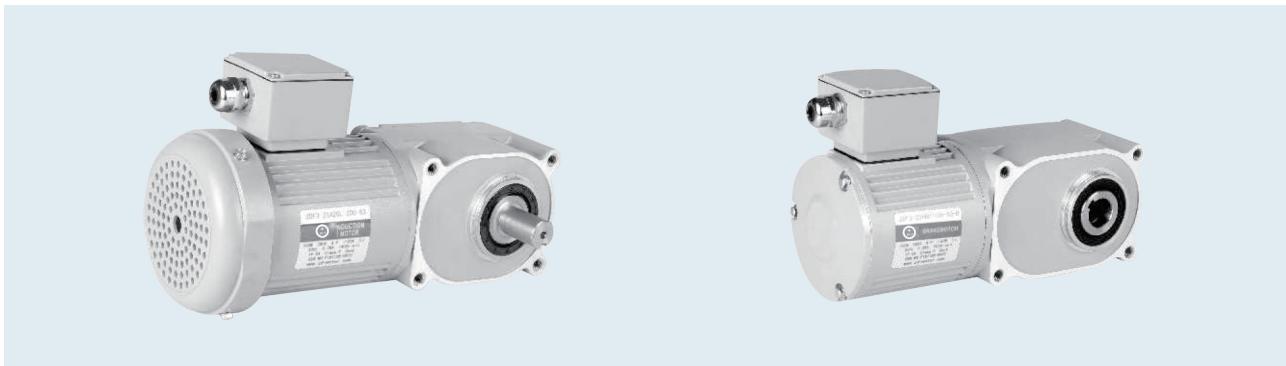
- F2-18A10<sub>L</sub>~240-60~90-S-TF
- F2-18A10<sub>R</sub>~240-60~90-S3-TF



注：常规产品不带接线盒 Note: Conventional products without wiring box



## F3尺寸图 F3 SIZE CHART



### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-25H□-100S(B)	100	200	60	0.60	0.56	1700	1.22	2.59	F
		220	50	0.74	0.67	1410	1.85	1.10	
F3-25H□-100S <sub>3</sub> (B)	100	380	50	0.43	0.67	1410	1.85	1.64	F
		460	60	0.41	0.55	1730	2.00	1.80	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-22A□-100S(B)	100	200	60	0.60	0.56	1700	1.22	2.59	F
		220	50	0.74	0.67	1410	1.85	1.10	
F3-22A□-100S <sub>3</sub> (B)	100	380	50	0.43	0.67	1410	1.85	1.64	F
		460	60	0.41	0.55	1730	2.00	1.80	

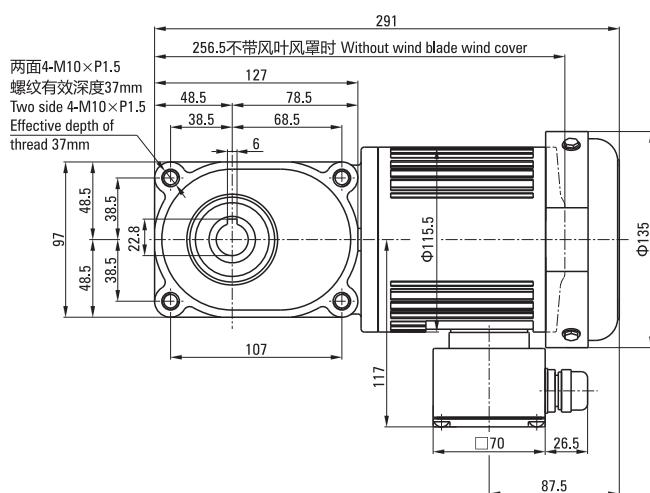
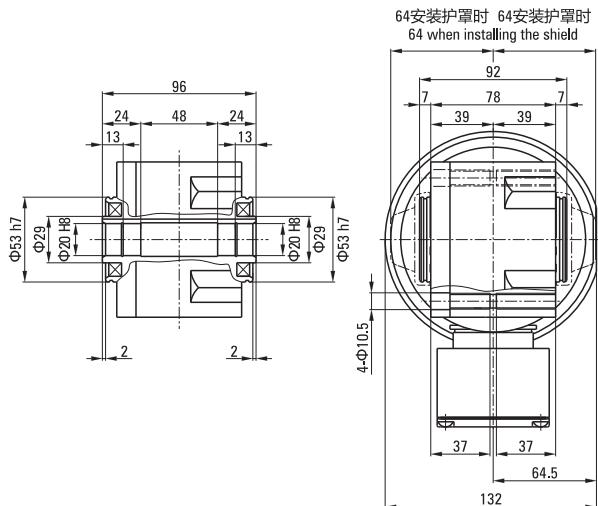
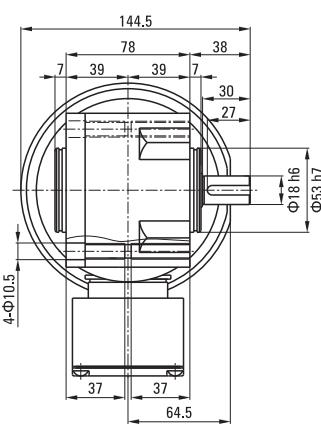
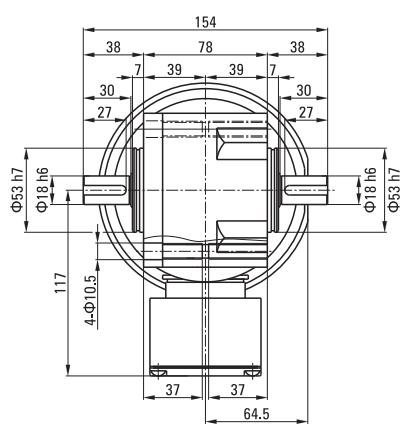
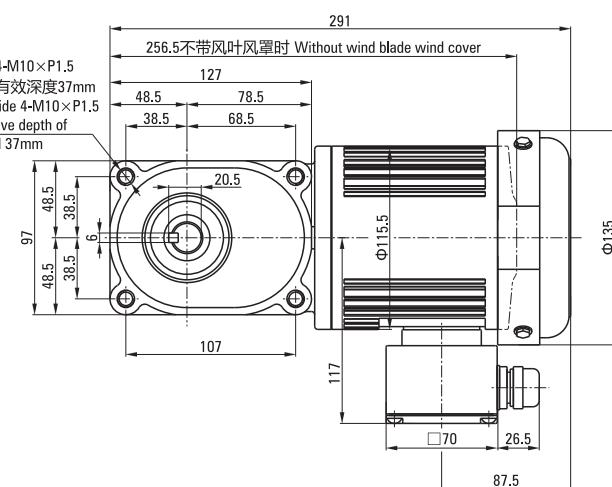
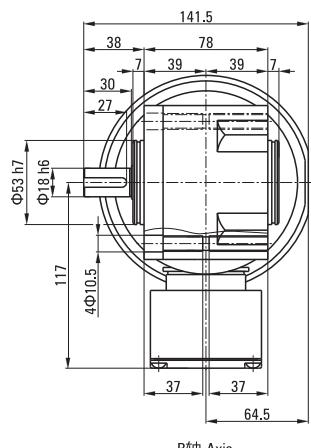
功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance	
			r/min	N.m	kgf.m	Axial Force Load			N	kgf
100	20/18	5	300	2.50	0.260	980	100	244	25	
		7.5	200	3.80	0.390	1080	110	270	28	
		10	150	5.20	0.530	1180	120	294	30	
		12	125	6.50	0.660	1270	130	316	32	
		15	100	7.70	0.790	1320	135	333	34	
		20	75.0	10.8	1.100	1470	150	373	38	
		25	60.0	13.0	1.300	1570	160	392	40	
		30	50.0	16.0	1.600	1670	170	422	43	
		40	37.5	21.0	2.100	1810	185	451	46	
		50	30.0	25.0	2.600	1860	190	471	18	
		60	25.0	31.0	3.200	1860	190	471	48	
	25/22	80	18.8	39.0	4.000	2550	260	637	65	
		100	15.0	49.0	5.000	2550	260	637	65	
		120	12.5	59.0	6.000	2550	260	637	65	
		160	9.40	78.0	8.000	2550	260	637	65	
		200	7.50	98.0	10.01	2550	260	637	65	
		※240	6.30	101	10.31	2550	260	637	65	

注：带※号的为转矩力限制机种，使用时请阅读本表。Note: The number for the torque limit model, please read this table.



## 外形图 OUTLINE DRAWING

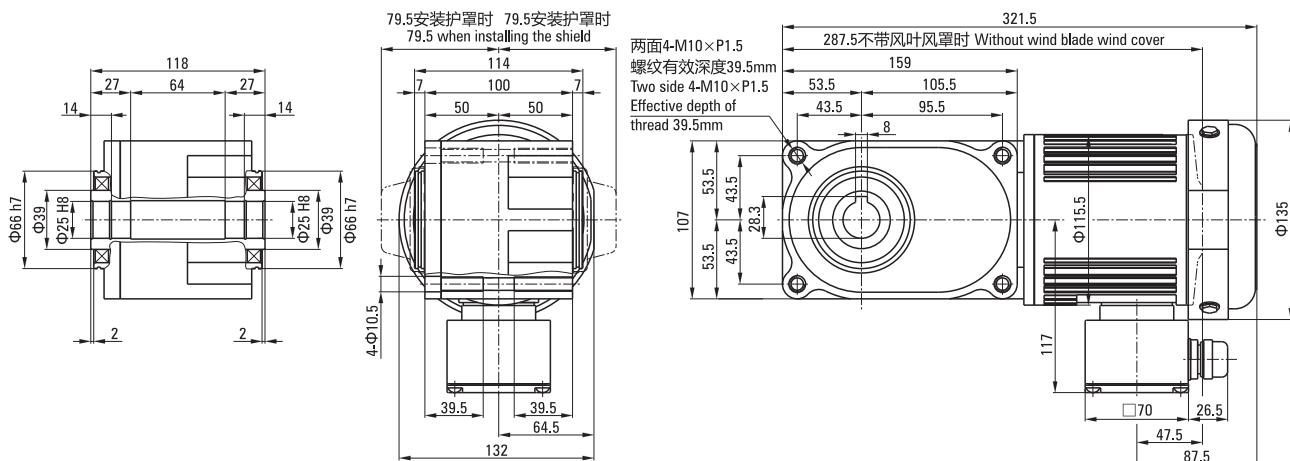
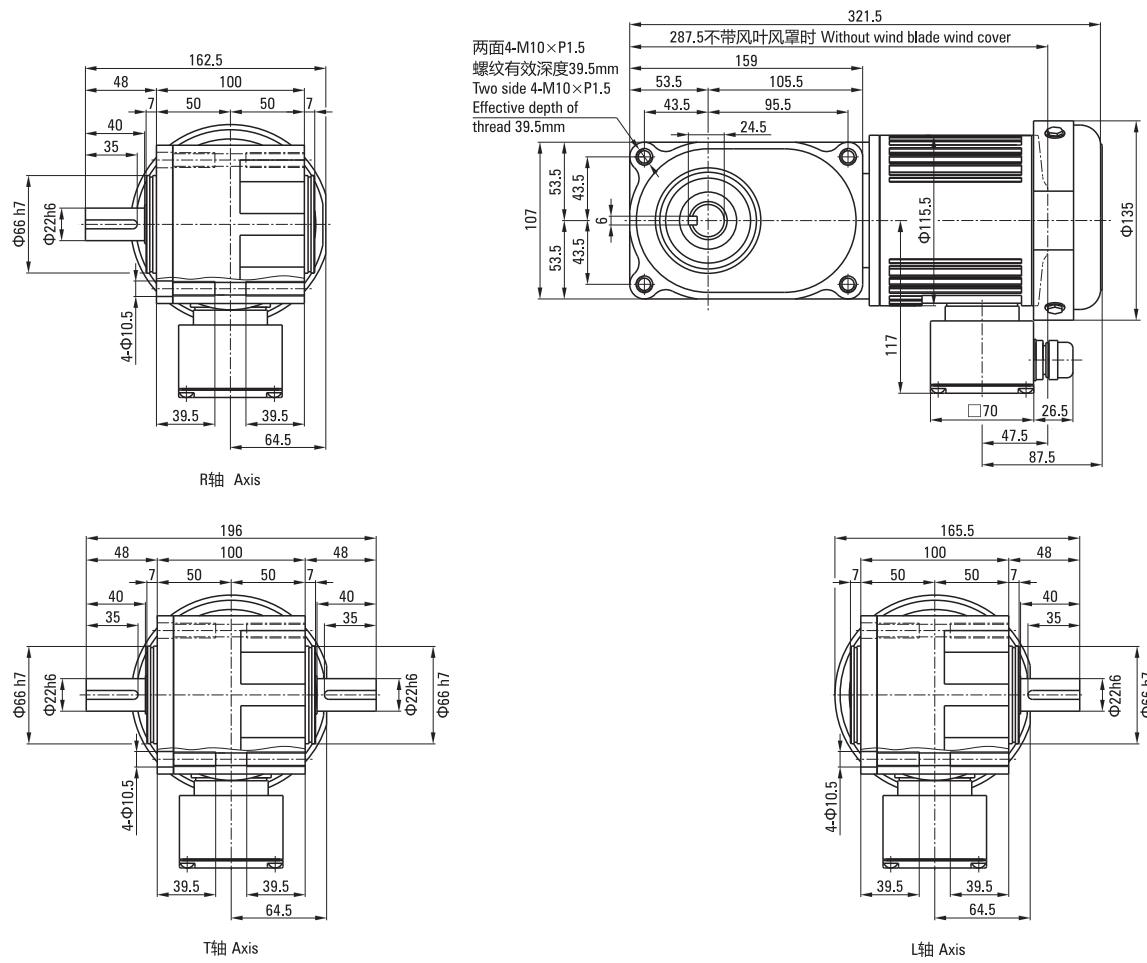
■ F3-20H5~60-100-S(B)

F3-20H5~60-100-S<sub>3</sub>(B)■ F3-18A5~60<sub>L</sub><sub>T</sub>-100-S(B)F3-18H5~60<sub>L</sub><sub>T</sub>-100-S<sub>3</sub>(B)



## 外形图 OUTLINE DRAWING

■ F3-25H80~240-100-S(B)

F3-25H80~240-100-S<sub>3</sub>(B)■ F3-22A80~240<sup>L</sup><sub>T</sub>-100-S(B)F3-22A80~240<sup>L</sup><sub>T</sub>-100-S<sub>3</sub>(B)



## F3尺寸图 F3 SIZE CHART



### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-25H□-200-S(B)	200	200	60	1.10	1.12	1700	2.25	4.93	F
F3-30H□-200-S(B)		220	50	1.35	1.36	1400	3.50	5.40	
F3-25H□-200-S <sub>3</sub> (B)		380	50	0.78	1.36	1400	3.50	3.10	
F3-30H□-200-S <sub>3</sub> (B)		460	60	0.78	1.12	1740	3.80	3.75	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-22A□-200-S(B)	200	200	60	1.10	1.12	1700	2.25	4.93	F
F3-28A□-200-S(B)		220	50	1.35	1.36	1400	3.50	5.40	
F3-22A□-200-S <sub>3</sub> (B)		380	50	0.78	1.36	1400	3.50	3.10	
F3-28A□-200-S <sub>3</sub> (B)		460	60	0.78	1.12	1740	3.80	3.75	

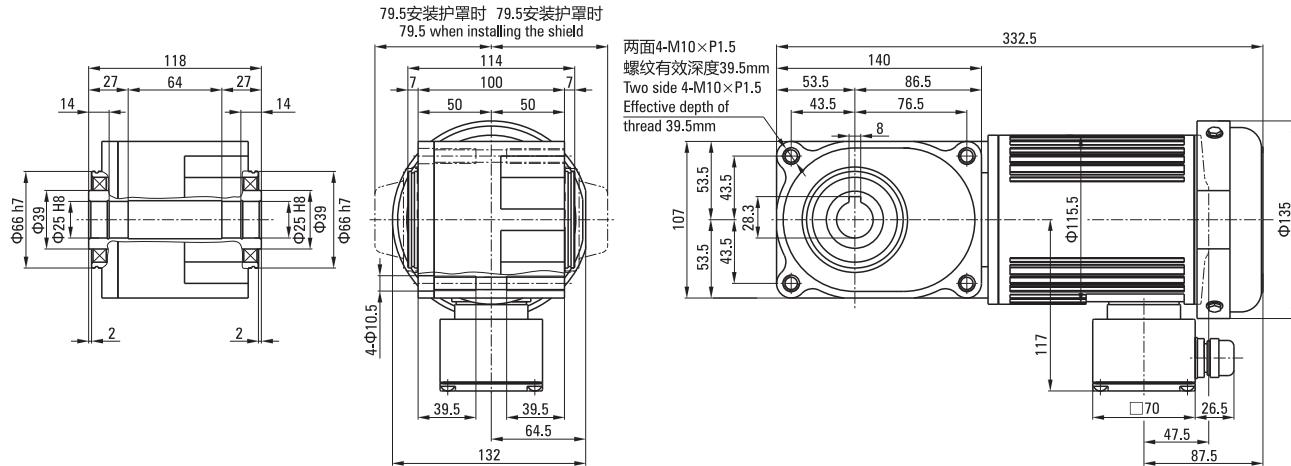
功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance					
			r/min	N.m	kgf.m	轴向力负载 Axial Force Load								
W	mm	i	50Hz	50Hz	50Hz		N	kgf	N	kgf				
100	20/18	5	300.0	5.5	0.560	1230	126	307	31					
		7.5	200.0	8	0.790	1370	140	342	35					
		10	150.0	11	1.130	1520	155	380	39					
		12	125.0	13	1.350	1620	165	405	41					
		15	100.0	17	1.690	1720	176	429	44					
		20	75.00	22	2.260	1860	190	466	48					
		25	60.00	28	2.820	2010	205	502	51					
		30	50.00	33	3.380	2110	215	527	54					
		40	37.50	44	4.510	2300	235	576	59					
		50	30.00	55	5.640	2450	250	613	63					
25/22	25/22	60	25.00	66	6.770	2550	260	637	65					
		80	18.80	80	8.120	3090	315	775	79					
		100	15.00	99	10.15	3140	320	785	80					
		120	12.50	119	12.18	3140	320	785	80					
		160	9.400	159	16.24	3140	320	785	80					
		※200	7.500	184	18.80	3140	320	785	80					
		※240	6.300	184	18.80	3140	320	785	80					

注：带※号的为转矩力限制机种，使用时请阅读本表。 Note: The number for the torque limit model, please read this table.

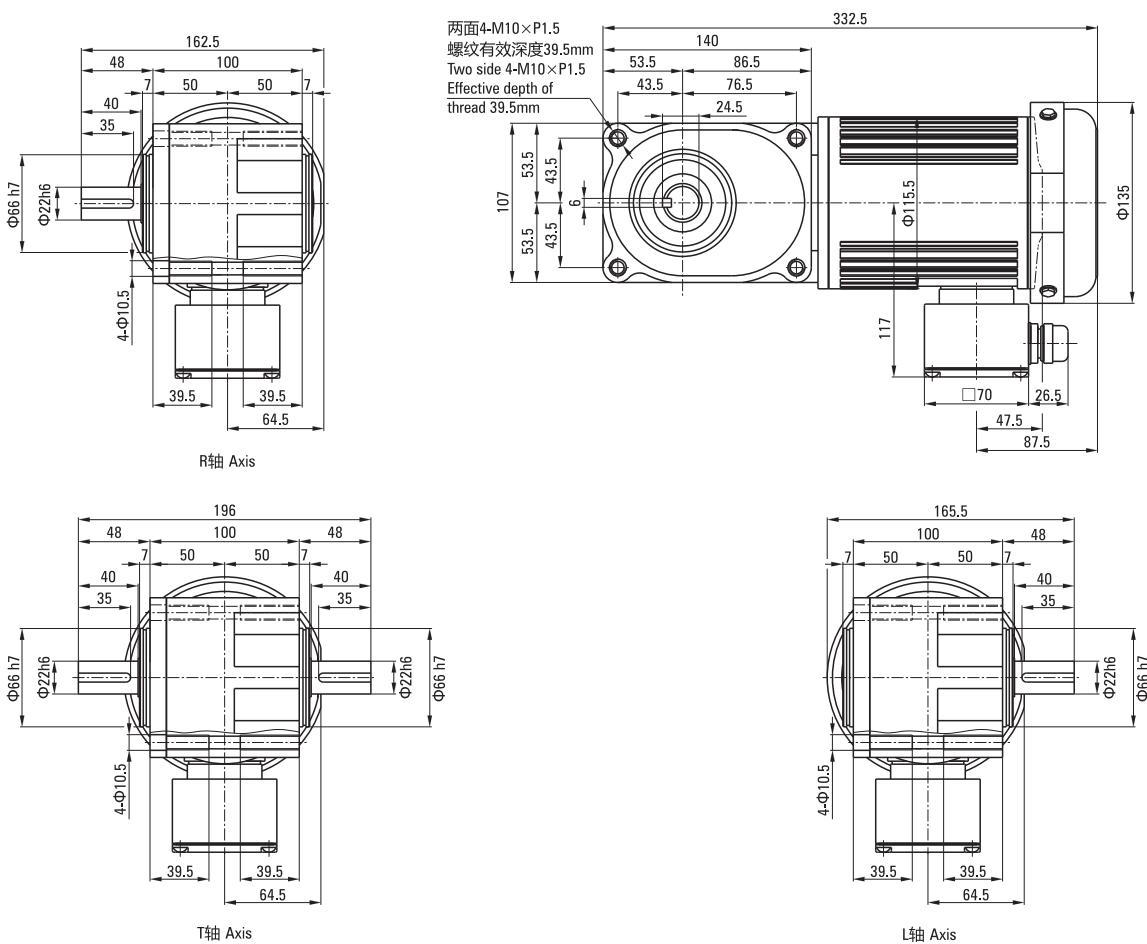


## 外形图 OUTLINE DRAWING

■ F3-25H5~60-200-S(B)      F3-25H5~60-200-S<sub>3</sub>(B)



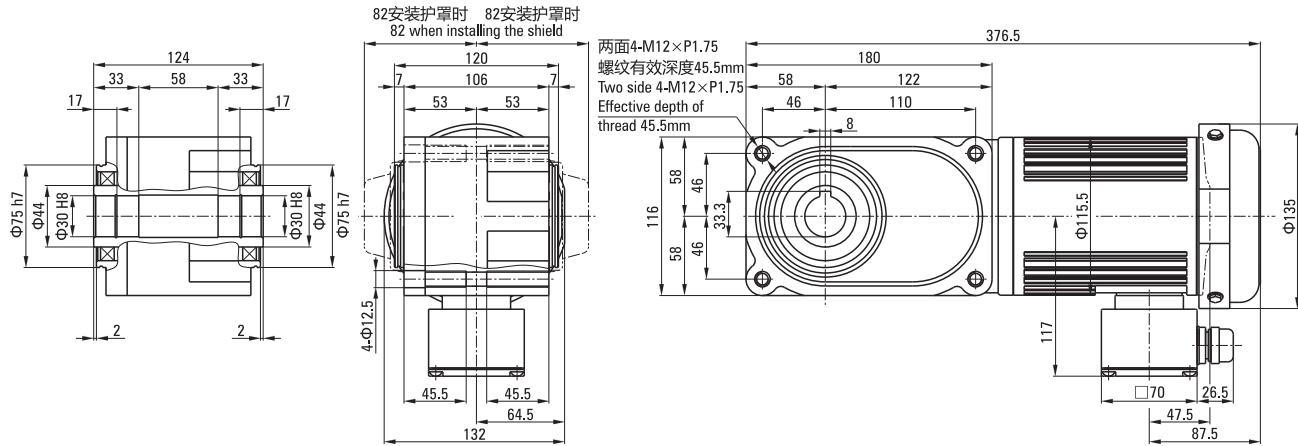
■ F3-22A5~60<sup>L</sup><sub>T</sub>-200S-(B)      F3-22A5~60<sup>L</sup><sub>T</sub>-200-S<sub>3</sub>(B)



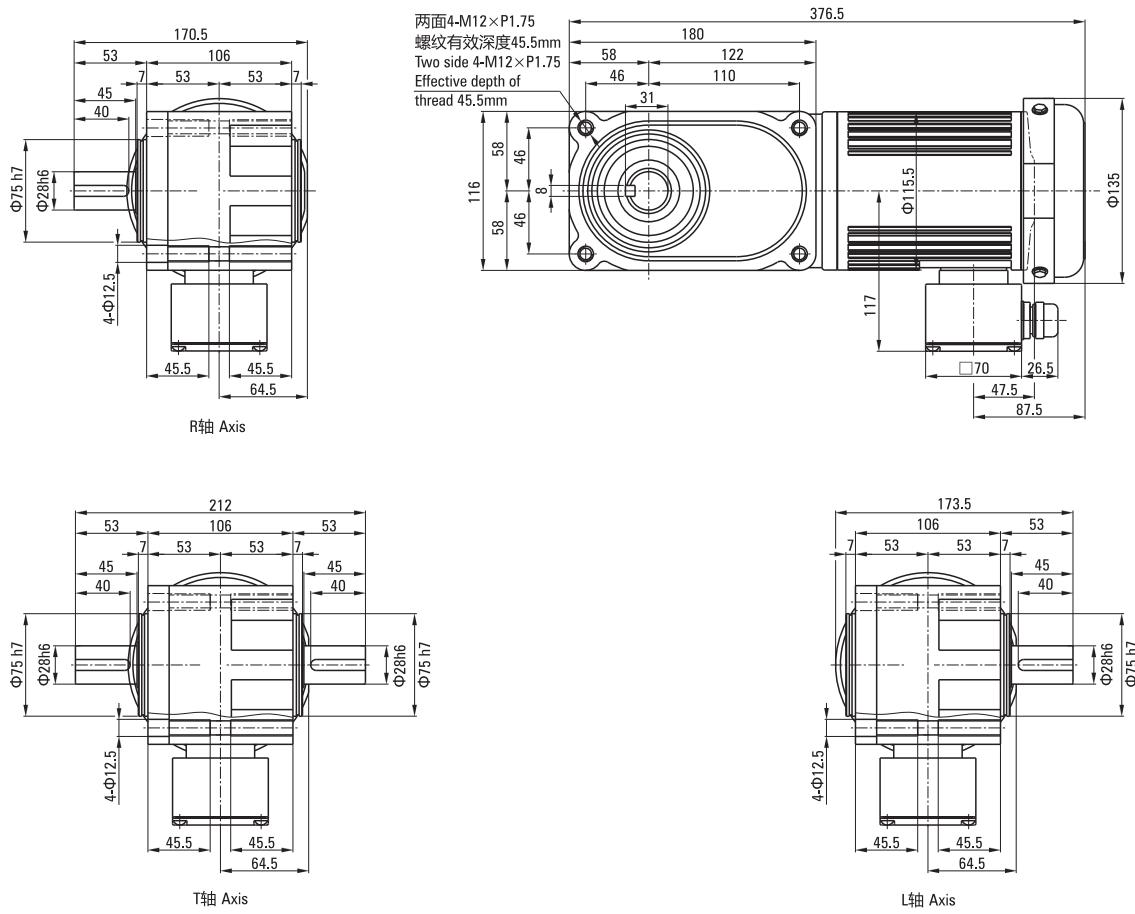


## 外形图 OUTLINE DRAWING

F3-30H80~240-200-S(B) F3-30H80~240-200-S<sub>3</sub>(B)



F3-28A80~240<sub>T</sub><sup>L</sup>-200-S(B) F3-28A80~240<sub>T</sub><sup>L</sup>-200-S<sub>3</sub>(B)





## F3尺寸图

### F3 SIZE CHART



#### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-30H□-400-S(B)	400	200	60	1.97	2.31	1650	3.80	7.5	F
F3-35H□-400-S(B)		220	50	2.00	2.75	1380	6.90	9.5	
F3-30H□-400-S <sub>3</sub> (B)		380	50	1.19	2.75	1380	6.90	5.5	
F3-35H□-400-S <sub>3</sub> (B)		460	60	1.11	2.20	1730	7.30	6.3	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-28A□-400-S(B)	400	200	60	1.97	2.31	1650	3.80	7.5	F
F3-32A□-400-S(B)		220	50	2.00	2.75	1380	6.90	9.5	
F3-28A□-400-S <sub>3</sub> (B)		380	50	1.19	2.75	1380	6.90	5.5	
F3-32A□-400-S <sub>3</sub> (B)		460	60	1.11	2.20	1730	7.30	6.3	

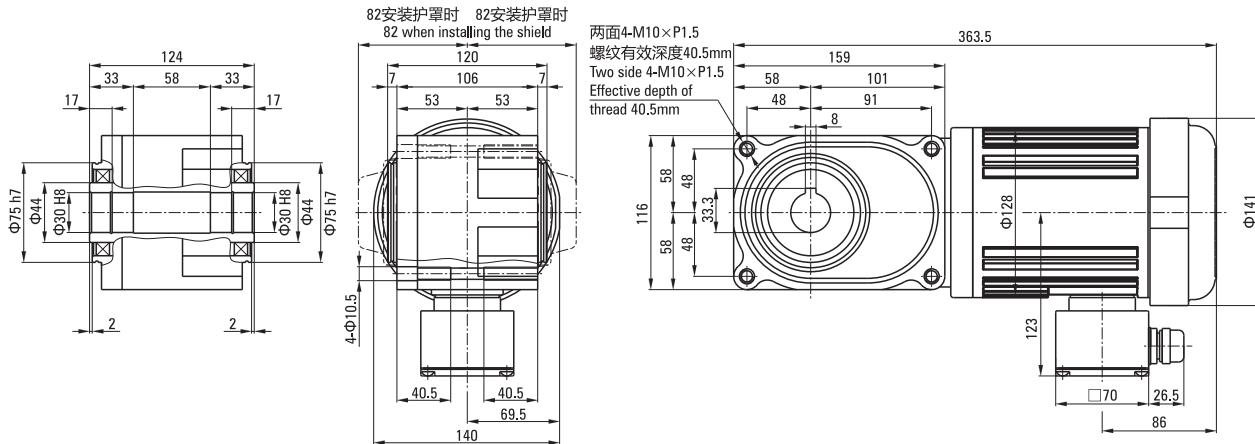
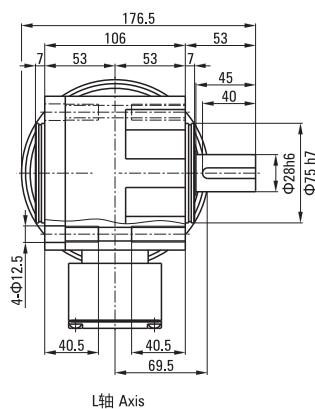
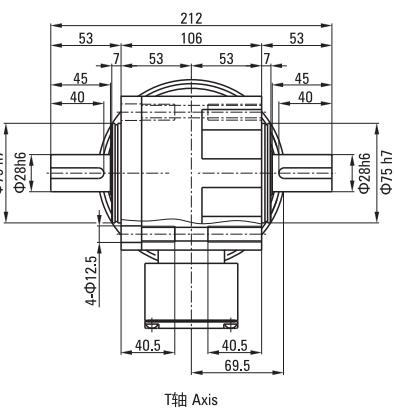
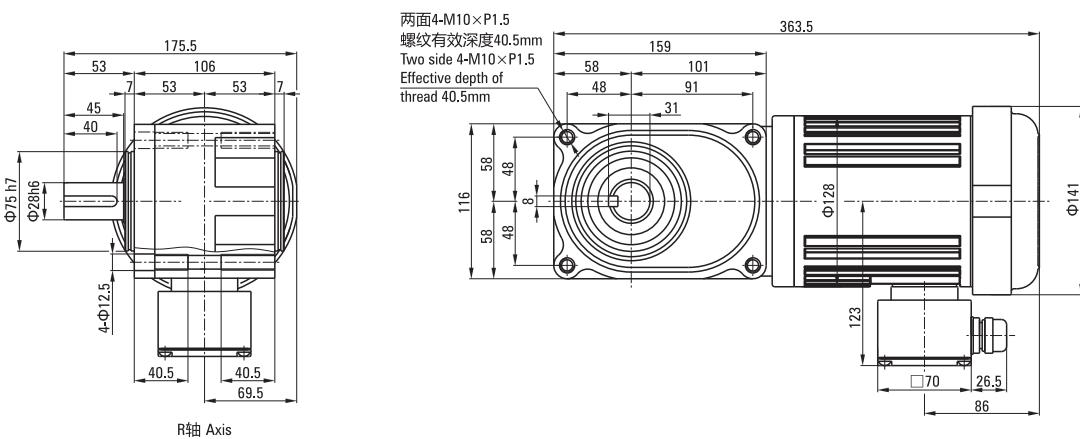
功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance	
			r/min		N.m	kgf.m	N	kgf	N	kgf
			W	mm	i	50Hz	50Hz	50Hz	N	kgf
400	30/28	35/32	5	300.0	11	1.130	1520	155	375	38
			7.5	200.0	17	1.730	1760	180	438	45
			10	150.0	22	2.260	1910	195	475	48
			12	125.0	27	2.710	2060	210	506	52
			15	100.0	33	3.380	2160	220	539	55
			20	75.00	44	4.510	2400	245	600	61
			25	60.00	55	5.640	2550	260	637	65
			30	50.00	66	6.770	2650	270	662	68
			40	37.50	88	9.020	2840	290	711	73
			50	30.00	111	11.28	2990	305	747	76
			60	25.00	133	13.53	3090	315	767	78
			80	18.80	159	16.24	3480	355	873	89
			100	15.00	199	20.30	3530	360	833	85
			120	12.50	239	24.36	3530	360	833	85
			※160	9.400	270	27.55	3630	370	912	93
			※200	7.500	270	27.55	3630	370	912	93
			※240	6.300	270	27.55	3630	370	912	93

注：带※号的为转矩力限制机种，使用时请阅读本表。Note: The number for the torque limit model, please read this table.



## 外形图 OUTLINE DRAWING

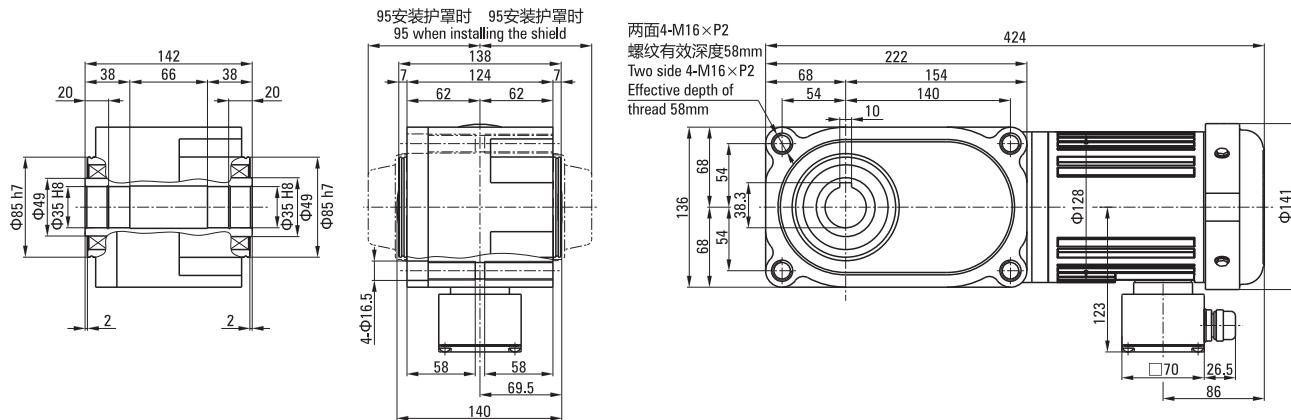
F3-30H5~60-400-S(B)

F3-30H5~60-400-S<sub>3</sub>(B)F3-28A5~60<sup>L</sup><sub>T</sub>-400-S(B)F3-28A5~60<sup>L</sup><sub>T</sub>-400-S<sub>3</sub>(B)

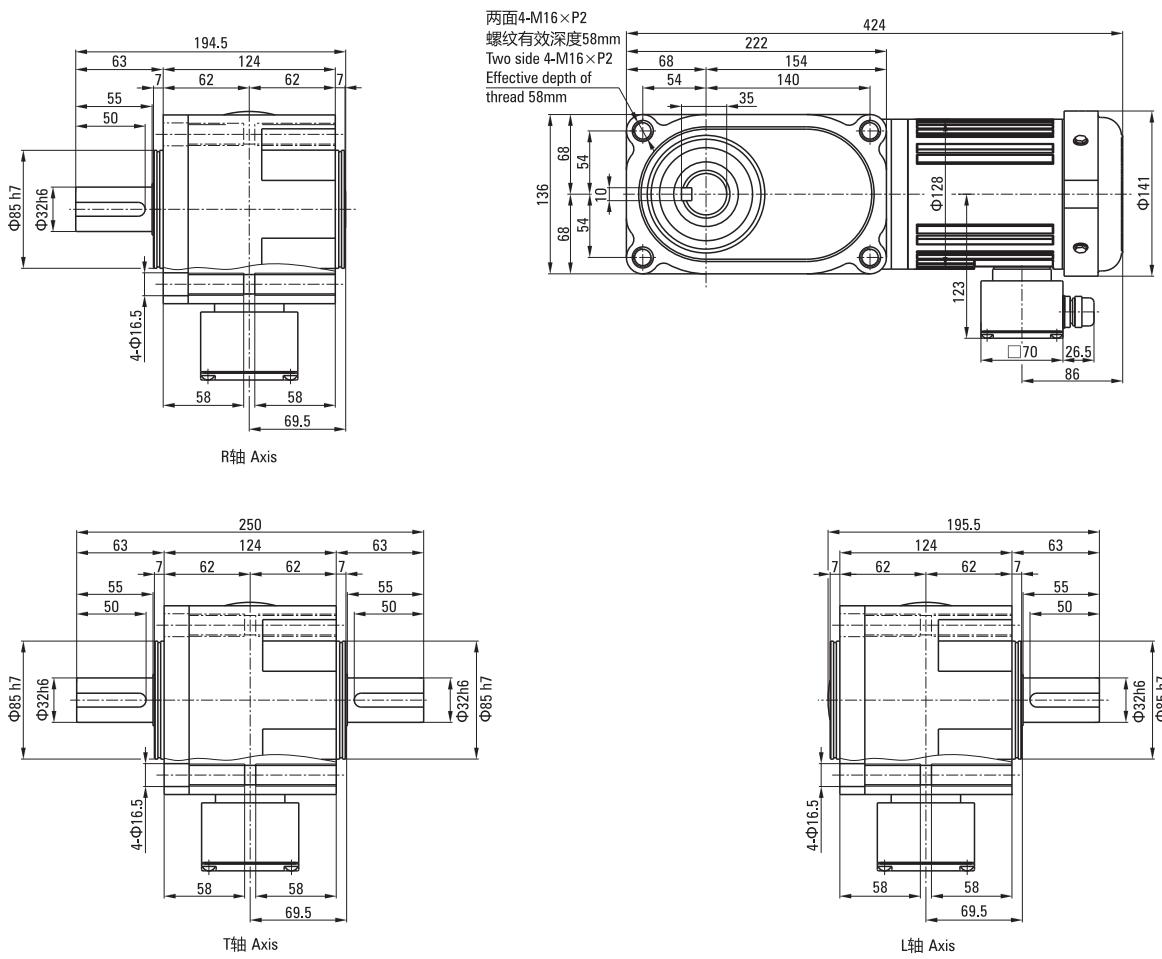


## 外形图 OUTLINE DRAWING

■ F3-35H80~240-400-S(B) F3-35H80~240-400-S<sub>3</sub>(B)

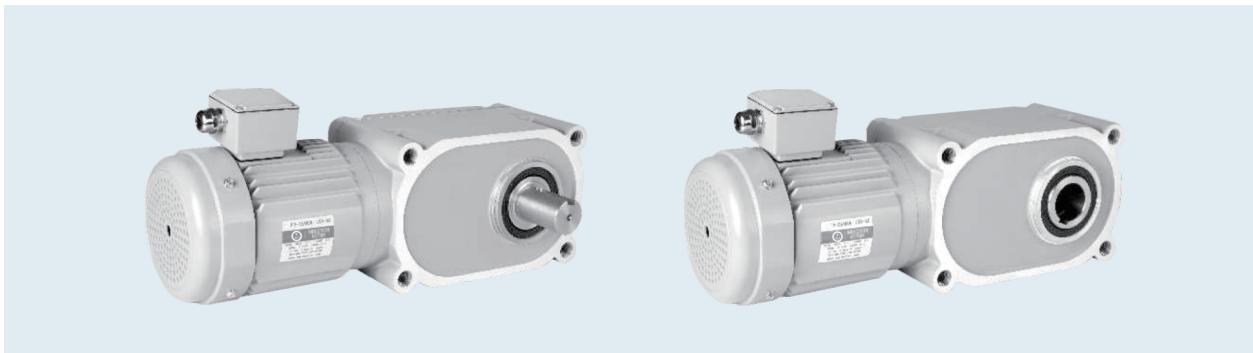


■ F3-32A80~240<sup>L</sup><sub>T</sub>-400-S(B) F3-32A80~240<sup>L</sup><sub>T</sub>-400-S<sub>3</sub>(B)





## F3尺寸图 F3 SIZE CHART



### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-35H□-750-S(B)	750	200	60	3.45	4.22	1700	9.20	10.0	F
F3-45H□-750-S(B)		220	50	4.24	5.00	1430	15.5	12.0	
F3-35H□-750-S <sub>3</sub> (B)		380	50	2.45	5.00	1430	15.5	12.0	
F3-45H□-750-S <sub>3</sub> (B)		460	60	2.28	4.12	1730	16.0	13.2	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-32A□-750-S(B)	750	200	60	3.45	4.22	1700	9.20	10.0	F
F3-40A□-750-S(B)		220	50	4.24	5.00	1430	15.5	12.0	
F3-32A□-750-S <sub>3</sub> (B)		380	50	2.45	5.00	1430	15.5	12.0	
F3-40A□-750-S <sub>3</sub> (B)		460	60	2.28	4.12	1730	16.0	13.2	

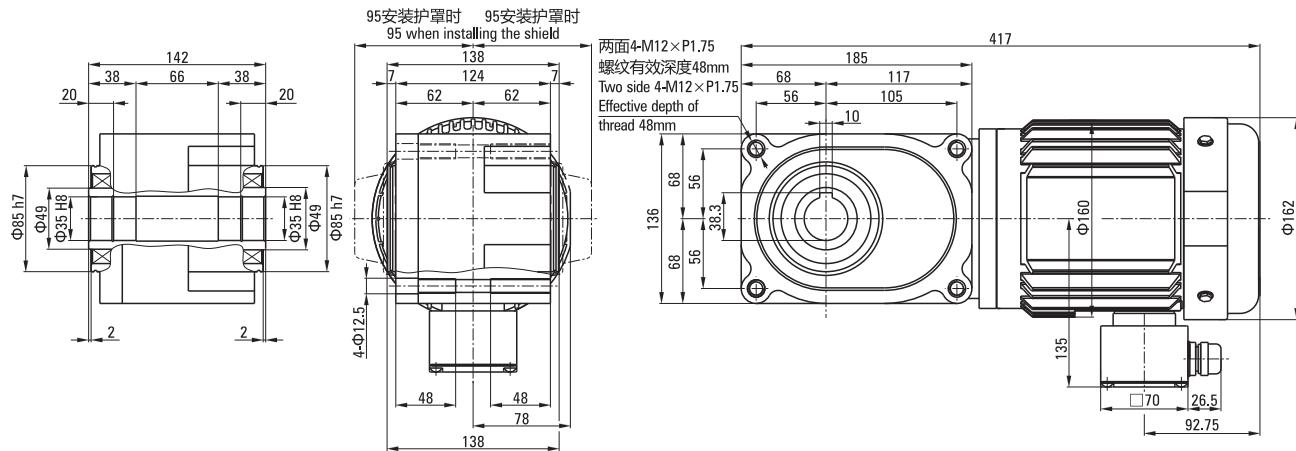
功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance		
			r/min		N.m	kgf.m	N		kgf	N	kgf
			50Hz	50Hz	50Hz	50Hz	N	kgf	N	kgf	
W	mm	30/28	i	50Hz	50Hz	50Hz	N	kgf	N	kgf	
			5	300.0	21	2.110	1960	200	500	51	
			7.5	200.0	30	3.100	2250	230	567	58	
			10	150.0	41	4.230	2450	250	613	63	
			12	125.0	50	5.070	2600	265	669	68	
			15	100.0	62	6.340	2740	280	686	70	
			20	75.00	83	8.460	2990	305	747	76	
			25	60.00	104	10.57	3190	326	796	81	
			30	50.00	124	12.69	3280	335	821	84	
			40	37.50	166	16.91	3480	355	870	89	
400	35/32		50	30.00	207	21.14	3480	355	870	89	
			60	25.00	249	25.37	3480	355	870	89	
			80	18.80	298	30.45	4750	485	1177	120	
			100	15.00	373	38.06	4750	485	1177	120	
			120	12.50	448	45.67	4750	485	1177	120	
			※160	9.400	554	56.53	5190	530	1275	130	
			※200	7.500	554	56.53	5190	530	1275	130	
			※240	6.300	554	56.53	5190	530	1275	130	

注：带※号的为转矩力限制机种，使用时请阅读本表。Note: The number for the torque limit model, please read this table.

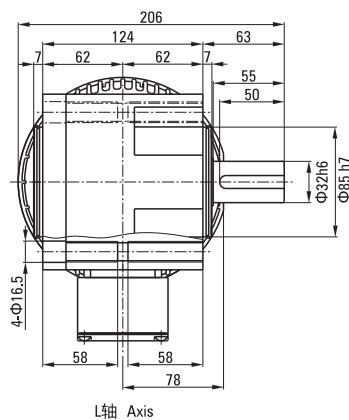
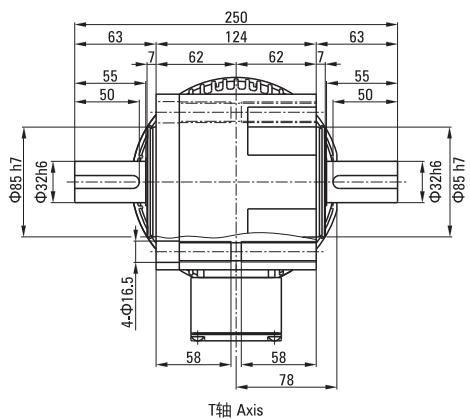
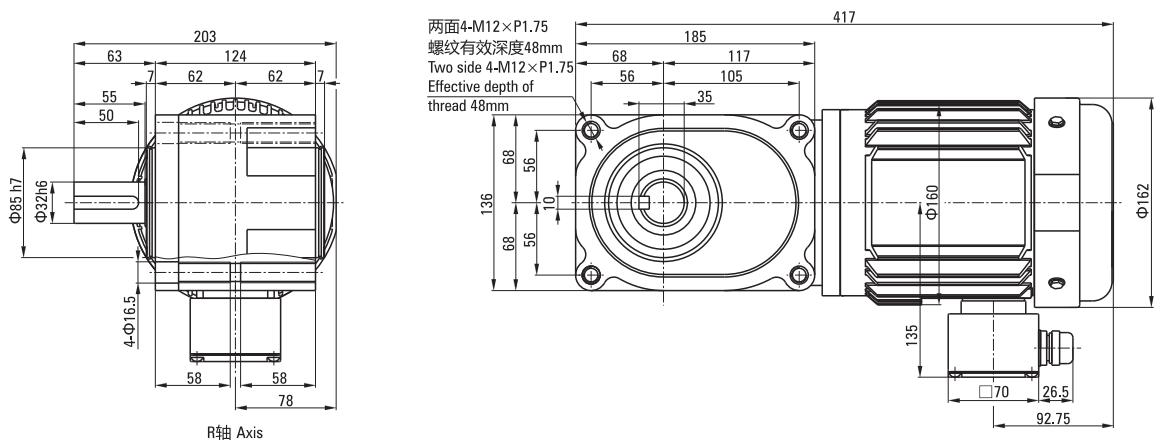


## 外形图 OUTLINE DRAWING

F3-35H5~60-750-S(B) F3-35H5~60-750-S<sub>3</sub>(B)



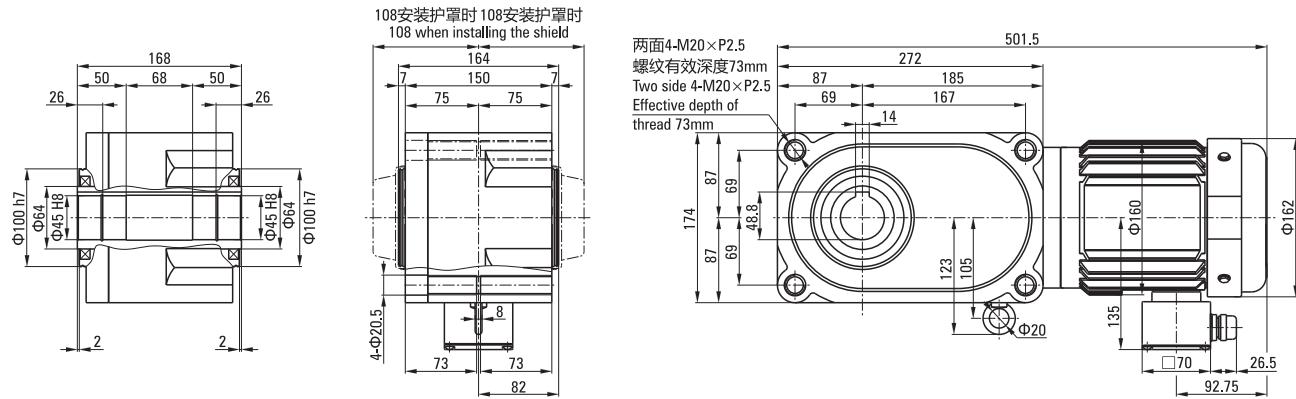
F3-32A5~60<sup>L</sup><sub>T</sub>-750-S(B) F3-32A5~60<sup>L</sup><sub>T</sub>-750-S<sub>3</sub>(B)



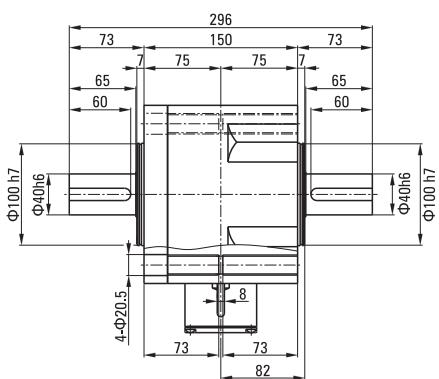
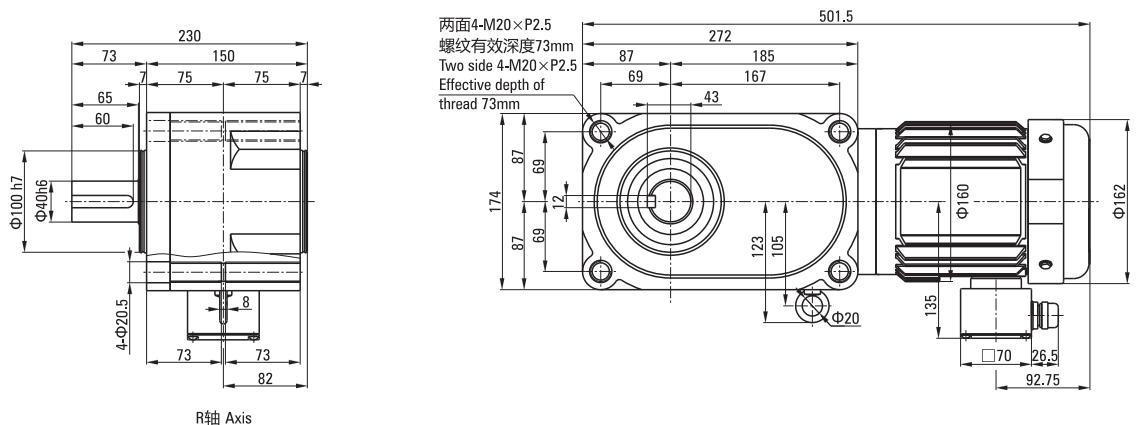


## 外形图 OUTLINE DRAWING

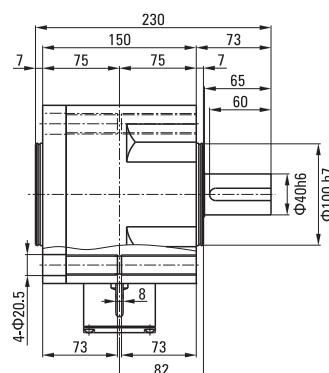
■ F3-45H80~240-750-S(B) F3-45H80~240-750-S<sub>3</sub>(B)



■ F3-40A80~240<sub>T</sub><sup>L</sup>-750-S(B) F3-40A80~240<sub>T</sub><sup>L</sup>-750-S<sub>3</sub>(B)



T轴 Axis



L轴 Axis



## F3尺寸图 F3 SIZE CHART



### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-45H□-1500-S(B)	1500	200	60	7.10	8.70	1650	15.60	30.00	F
		220	50	6.70	10.2	1410	29.50	38.00	
		380	50	3.70	10.2	1400	22.30	31.00	
		460	60	3.30	8.50	1740	31.60	24.00	

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
	W	V	Hz	A	N.m	r/min	N.m	A	
F3-40A□-1500-S(B)	1500	200	60	7.10	8.70	1650	15.60	30.00	F
		220	50	6.70	10.2	1410	29.50	38.00	
		380	50	3.70	10.2	1400	22.30	31.00	
		460	60	3.30	8.50	1740	31.60	24.00	

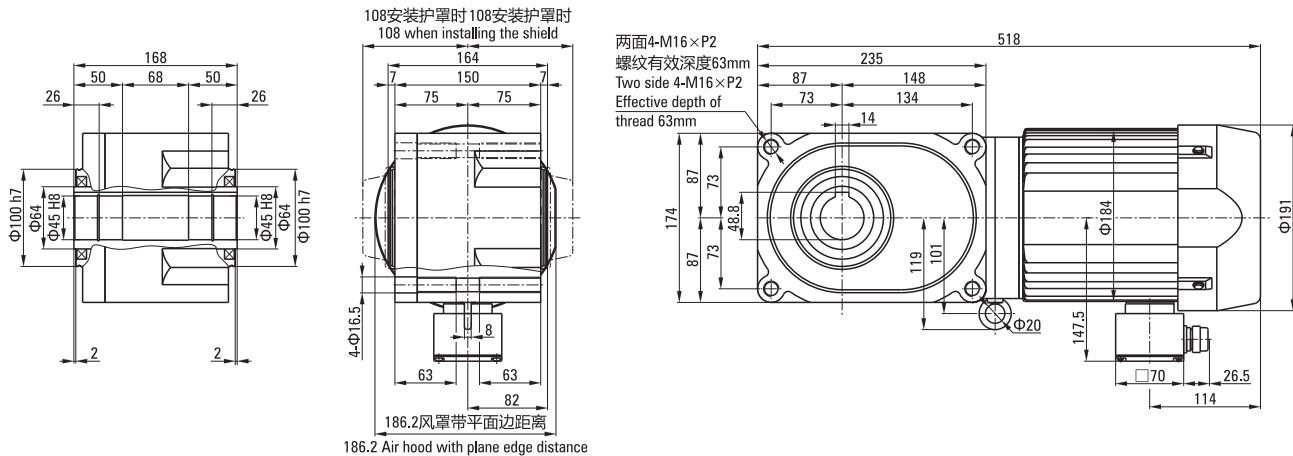
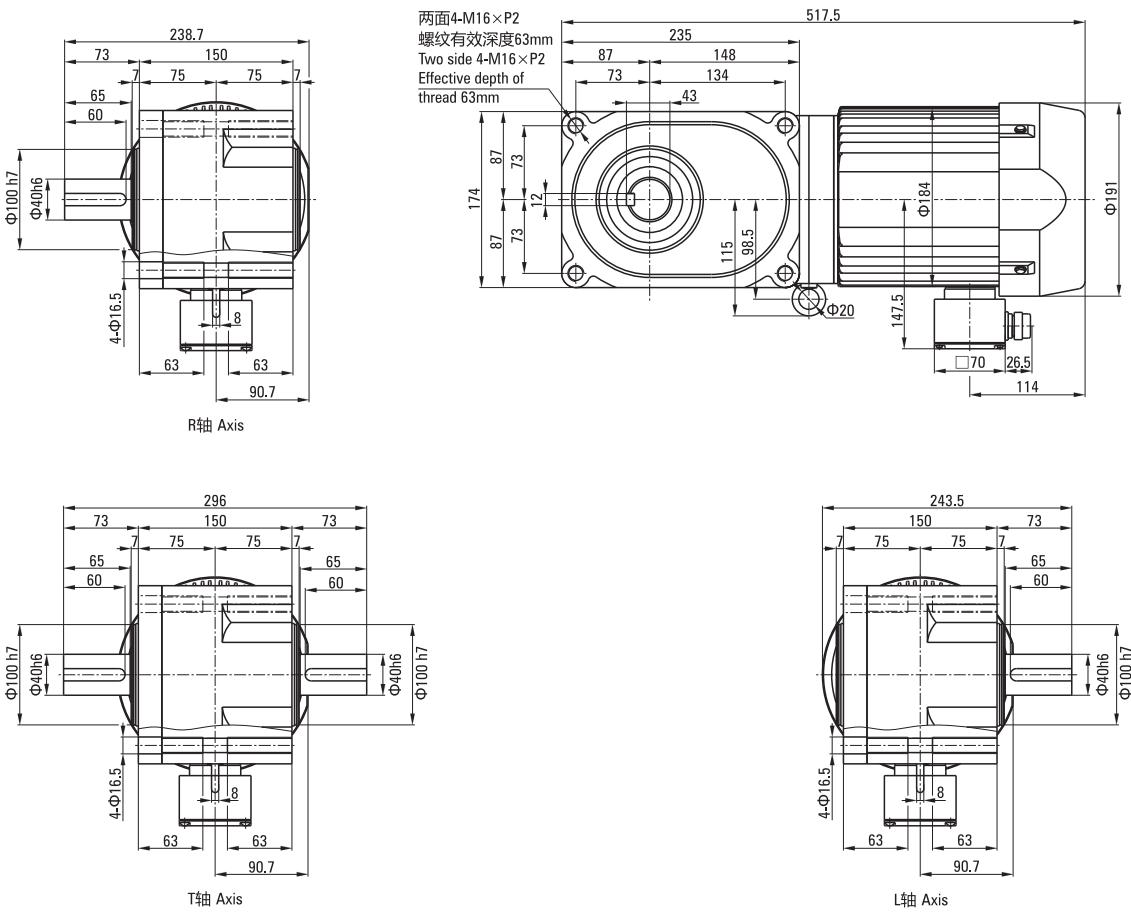
功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance	
			r/min	N.m	kgf.m	N	kgf	轴向力负载 Axial Force Load		
								N	kgf	
1500	45/40	5	50Hz	50Hz	50Hz	N	kgf	N	kgf	
			5	300.0	41	4.230	2550	260	800	82
			7.5	200.0	62	6.330	2940	300	900	92
			10	150.0	83	8.460	3330	340	967	99
			12	125.0	99	10.15	3630	370	1040	106
			15	100.0	124	12.69	3920	400	1067	109
			20	75.00	166	16.91	4070	415	1067	109
			25	60.00	207	21.14	4460	455	1067	109
			30	50.00	249	25.37	4700	480	1067	109
			40	37.50	332	33.83	4750	485	1067	109
			50	30.00	414	42.29	4750	485	1067	109
			60	25.00	497	50.74	4750	485	1067	109



## 外形图

## OUTLINE DRAWING

F3-45H5~60-1500-S(B)

F3-45H5~60-1500-S<sub>3</sub>(B)F3-40A5~60<sup>L</sup><sub>T</sub>-1500-S(B)F3-40A5~60<sup>L</sup><sub>T</sub>-1500-S<sub>3</sub>(B)



## F3尺寸图 F3 SIZE CHART



### ■ 规格 · 连续额定 Specification And Continuous Rating

型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
F3-45H□-2200-S	2200	200	60	8.50	12.4	1700	34.00	52.00	F
		220	50	8.70	14.7	1430	70.00	69.00	
		380	50	5.00	14.7	1430	70.00	40.00	
		460	60	4.50	12.0	1740	83.00	46.00	

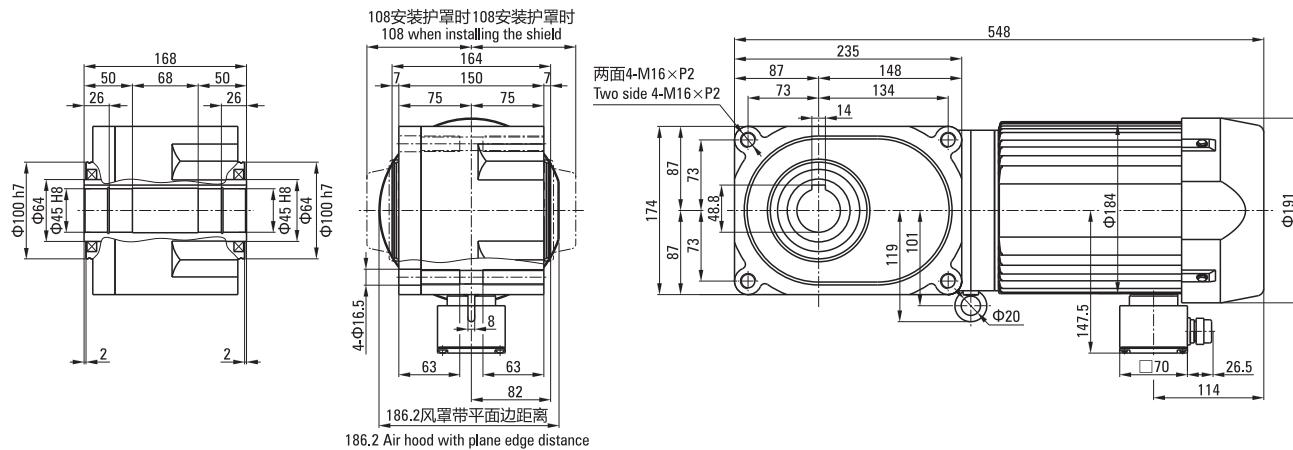
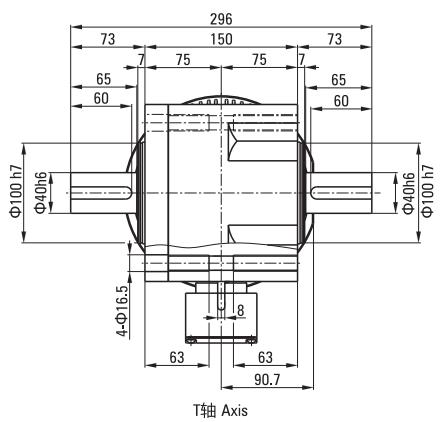
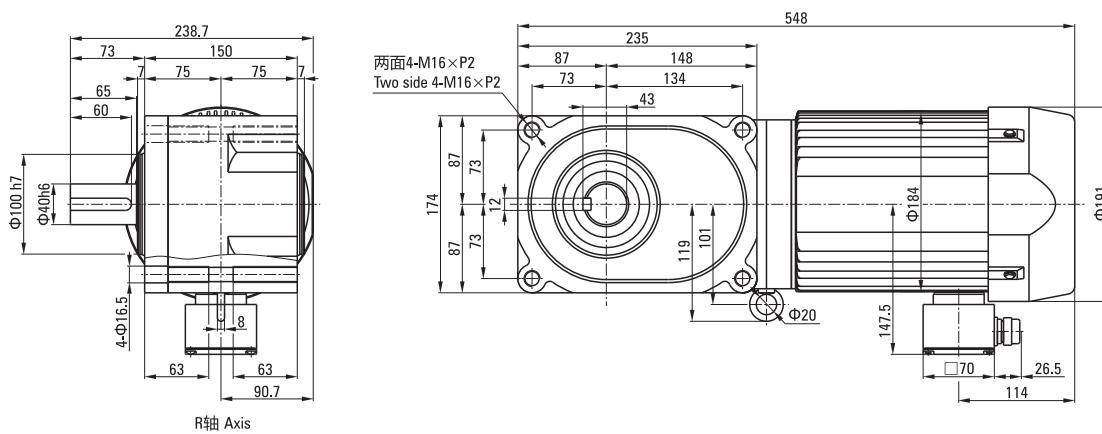
型号 Model	输出功率 Output Power	电压 Voltage	频率 Frequency	额定电流 Rated Current	额定转矩 Rated Torque	额定转速 Rated Speed	堵转转矩 Locked Rotor Torque	堵转电流 Locked Rotor Current	绝缘等级 Insulation Grade
F3-40A□-2200-S	2200	200	60	8.50	12.4	1700	34.00	52.00	F
		220	50	8.70	14.7	1430	70.00	69.00	
		380	50	5.00	14.7	1430	70.00	40.00	
		460	60	4.50	12.0	1740	83.00	46.00	

功率 Power	孔径/轴径 Aperture/Axis Diameter	减速比 Reduction Ratio	输出轴转速 Output Shaft Speed		输出轴容许转矩 Output Shaft Torque		输出轴容许 Output Shaft Tolerance		输出轴容许 Output Shaft Tolerance	
			r/min	N.m	kgf.m	N	kgf	轴向力负载 Axial Force Load		
								N	kgf	
2200	45/40	5	50Hz	50Hz	50Hz	3100	316	800	82	
			300.0	58	5.920	3500	357	900	92	
			200.0	90	9.180	3900	398	967	99	
			150.0	120	12.24	4100	418	1040	106	
			125.0	150	15.31	4400	449	1067	109	
			100.0	180	18.37	4700	480	1067	109	
			75.00	240	24.49	4700	480	1067	109	
			60.00	300	30.61	4700	480	1067	109	
			50.00	360	36.73	4700	480	1067	109	



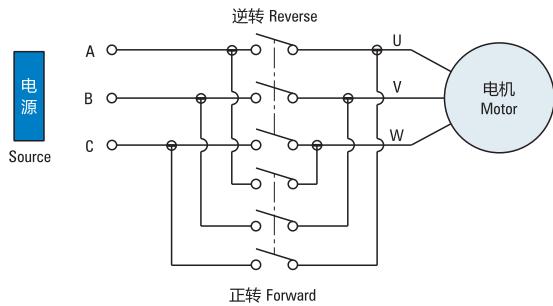
## 外形图 OUTLINE DRAWING

■ F3-45H5~30-2200-S(B)

F3-45H5~30-2200-S<sub>3</sub>(B)■ F3-40A5~30<sup>L</sup><sub>T</sub>-2200-S(B)F3-40A5~30<sup>L</sup><sub>T</sub>-2200-S<sub>3</sub>(B)

## 连接图 CONNECTION DIAGRAM

### ■ 标准型 Standard Type



图chart 符号 Symbol	接线盒 Junction Box	
	端子符号 Terminal Symbol	
A	U	
B	V	
C	W	

### ■ 单相接线图 Standard Type



图 chart 符号 Symbol	接线盒 Junction Box 端子符号 Terminal Symbol	对应电机引线 Corresponding Motor Lead	
		Red Red	Blue Blue
1	U		
2	V		
3	W		

### ■ 带电磁制动型 Electromagnetic Brake Type

#### ● 接线的种类与选择要点 Types and selection of wiring

接线 Connection	选择要点 Select Points	变频器 Frequency Converter	升降运转 Lifting Operation	省配线 Provincial Distribution	制动延迟 Brake Delay
交流开关 (A) AC switch (A)	由于电动机与电磁制动部可以使用不同的电路，因此最适合用于变频器驱动。 Because the electric motor and the electromagnetic braking part can use different circuits, the most suitable for the drive of the frequency converter.	◎ ( 最合适 ) (Most suitable)	○ ( 可以使用 ) (Can be used)	○	○
交流开关 (B) AC switch (B)	最简单的方法，即配线只靠电源线连接就可运转。配线的数量也相对减少。 The most simple way, that is, only by power cable wiring can run. The number of wiring is also relatively reduced.	✗ ( 不能使用 ) (Out of commission)	✗ ( 不能使用 ) (Out of commission)	◎	△

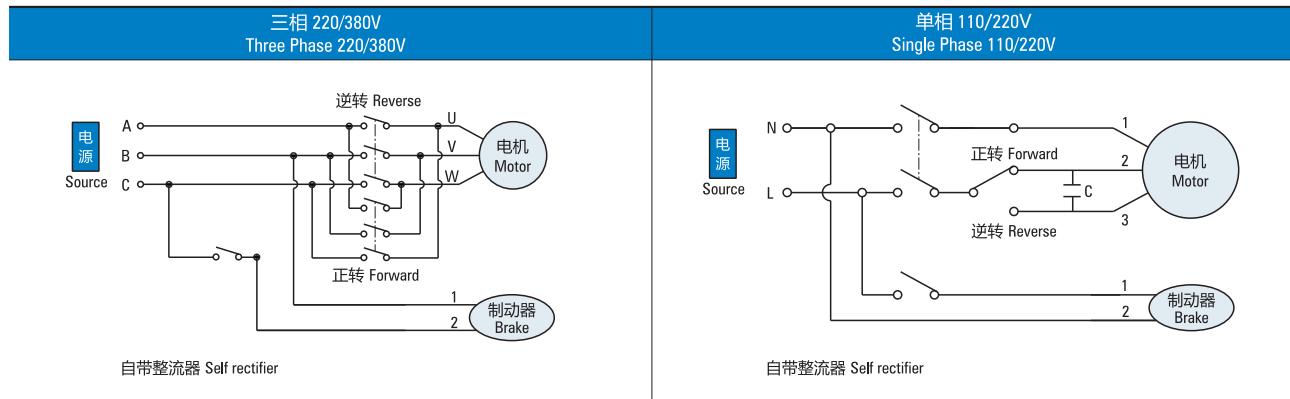
请注意：所谓制动延迟时间是指关闭开关到制动开始的时间，与制动时间不同。

Note: The so-called brake delay time is to turn off the switch to the beginning of the braking time, and the braking time is different.

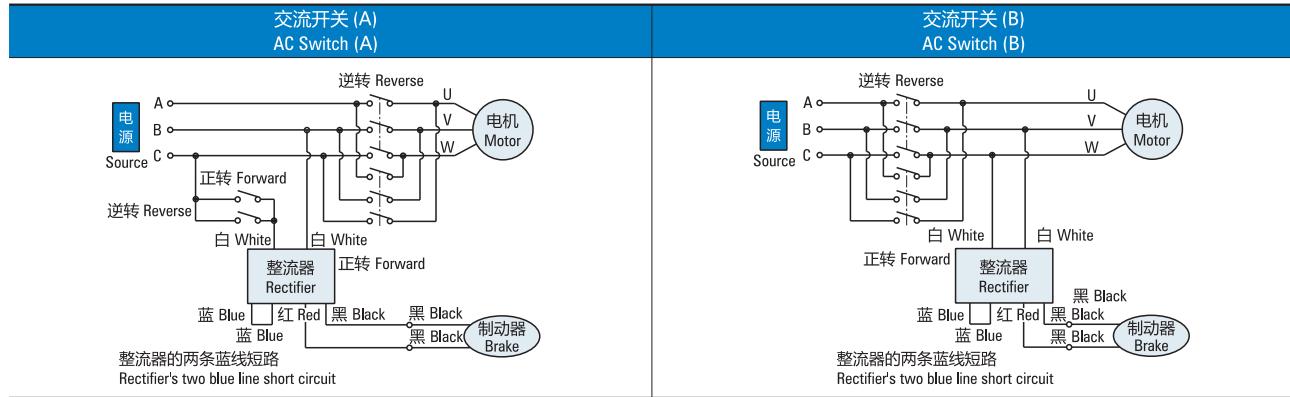


## ■ 连接方法 Connection Method

### ● F2系列 Series

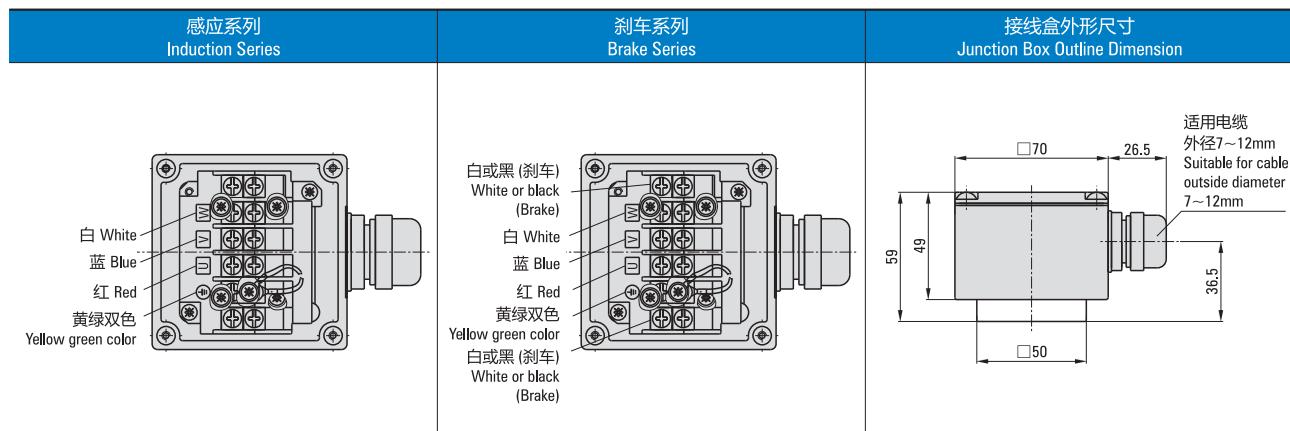


### ● F3系列 Series



## ■ 端子箱 Terminal Box

### ● 单相 Single-phase



**请注意：**对于带电磁制动型电动机，电磁制动引线从制动部引出。

Note: For an electric motor with an electromagnetic brake, an electromagnetic braking lead is drawn from the brake part.

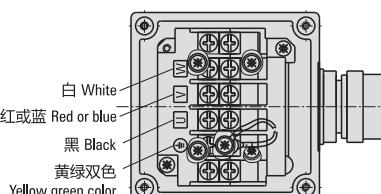
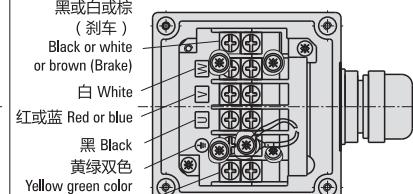
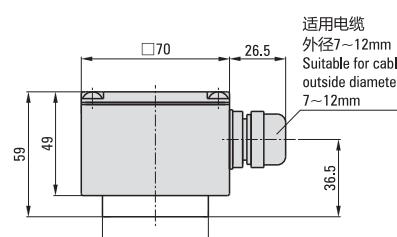


## 连接图

## CONNECTION DIAGRAM

## ■ 端子箱 Terminal Box

● 三相 Three-phase

感应系列 Induction Series	刹车系列 Brake Series	接线盒外形尺寸 Junction Box Outline Dimension
		

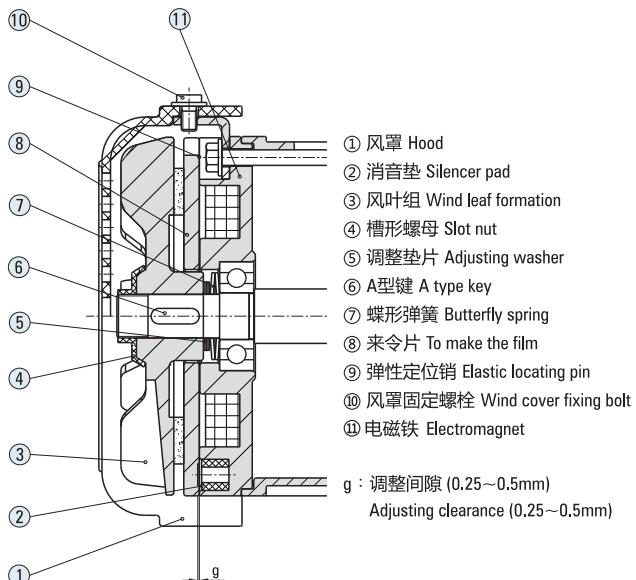
请注意： • 对于带电磁制动型电动机，电磁制动引线从制动部引出。 • 白线为F3整流器线，黑、棕为F2整流器线。

Note: • For an electric motor with an electromagnetic brake, an electromagnetic braking lead is drawn from the brake part.

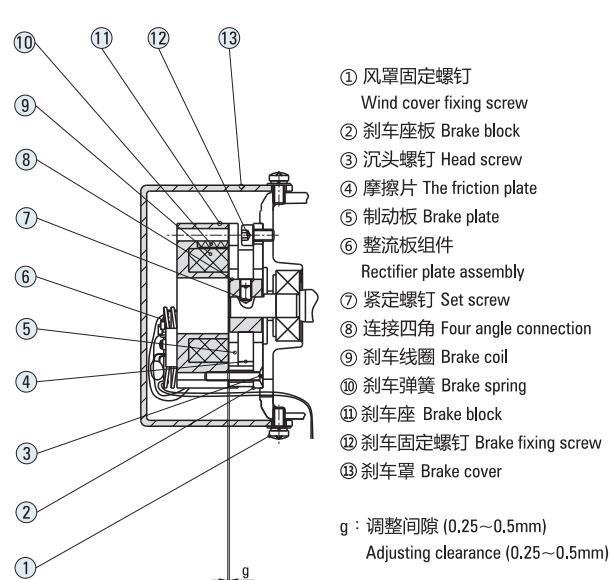
- The white line for F3 rectifier line, black and brown for F2 rectifier line.

## ■ 制动部结构 Brake Part Structure

● F3制动部结构 F3 brake part structure



● F2制动部结构 F2 brake part structure



## ● 制动部的间隙 Clearance of brake

若长时间使用制动部，间隙会越开越大，导致制动部失效。请进行定期（大约一年或者间隔使用100~150万次）的间隙调整。

If the long time use of the brake, the gap will be more open, leading to the failure of the brake. Please make a regular (About one year or interval using 100~150 million) of the gap adjustment.



## 连接图

## CONNECTION DIAGRAM

## ■ 与变频器的组合 Combined With Frequency Converter

## ● 可以使用频率范围 Frequency range can be used

一般请在5~120Hz范围内使用。

(注：当频率低于30Hz时，电机表面温度会较高。)

- 超过60Hz高速运转时的注意事项

在超过60Hz的高速运转中，振动、噪音将会增加。

另外转速加快会降低油封的使用寿命。

- 低速运转时注意事项

低速运转中，由于电动机的冷却效果低下经常会引起温度的异常上升，

请格外注意。

(请将电动机表面温度控制在80°C以下。)

In general, please use the 5~120Hz range.

Note: when the frequency is lower than 30Hz, the surface temperature will be higher

- More attention than the 60Hz high speed operation

Vibration and noise will be increased in the high speed operation of more than 60Hz. In addition, the speed will be accelerated to reduce the life of the oil seal.

- Low speed operation matters needing attention

Low speed operation, due to the cooling effect of the motor is often caused by the abnormal temperature rise, please pay extra attention to.

(Please control the motor surface temperature below 80°C).

## ● 电动机的转矩力特征（使用限度） Torque characteristics of the motor (Limit)

电动机的转矩力特征（使用限度）根据所使用的变频器的种类及控制方法的不同而产生巨大差异。

Torque characteristics of the motor (Use limit) caused great differences according to the types and controlling methods used by different frequency converter.

## ● 带电磁制动时 With electromagnetic brake

制动部配线请与变频器（变频器的输入侧供电）并联。

(输出侧电压变动可能会引起制动部的运行不稳定状况。)

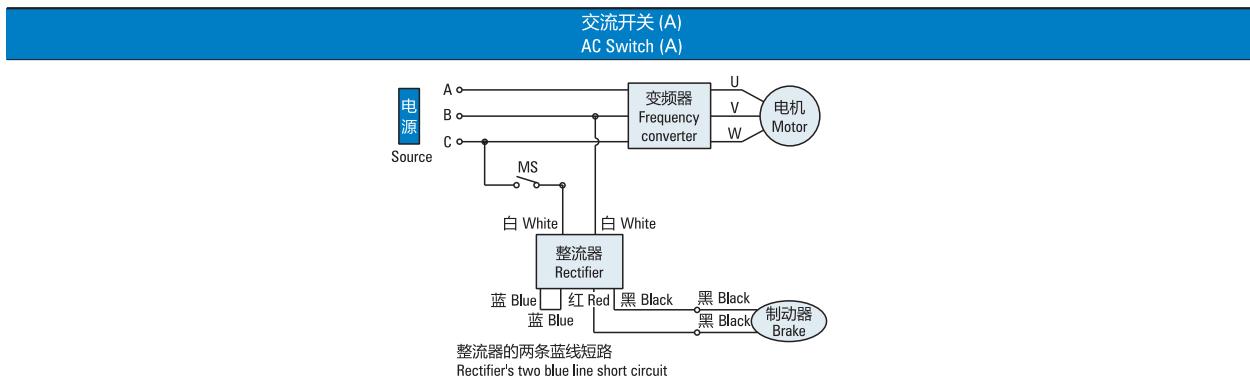
连接图标记如下，请加以参照。

The wiring of the brake unit is in parallel with the input side of the converter (Inverter).

(The output side voltage fluctuation may cause the brake part to run unstable.)

Connection icon in mind as follows, please refer to.

例 Cases:



## ● 用变频器驱动380V电动机时 When the 380V motor is driven by frequency converter

电动机端子间会发生浪涌电压，可能会导致电动机绝缘性能的劣化。

为防止浪涌电压，一般采用抑制电压增强（输出电抗器）和抑制波高值（输出滤波器）两种方法。

- 输出电抗器

配线较短时，可在变频器的输出侧设置AC电抗器，通过抑制电压的增强从而减弱浪涌电压。

如果配线过长则难以抑制电压的高波值。

- 输出滤波器

在变频器的输出侧设置滤波器，可以抑制电动机端子电压的高波值。

Surge voltage can occur between the motor terminals, which may lead to deterioration of the insulation performance of the motor.

In order to prevent the surge voltage, by suppressing voltage enhancement (output reactor) and suppress the peak value (output filter) two methods.

- Output reactor

Wiring shorter, can be set at the output side of the inverter AC reactor, through the suppression of voltage enhancement to reduce the surge voltage.

If the wiring is too long, it is difficult to suppress the high wave value of voltage.

- Output filter

The filter can be arranged at the output side of the frequency converter, which can restrain the high wave value of the terminal voltage of the motor.

上述仅为一般情况，具体事宜请向变频器厂家咨询。The above is only the general situation, the specific matters, please consult the inverter manufacturers.