



Shanghai TongYi Automation Technology Co., Ltd

SV Series Low&High-Voltage Servo Motor

Product Selection Guide 20240601

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Directory

1. Company Profile.....	1
2. Servo Motor Introduction.....	2
2.1. SV Series Low-Voltage Servo Motor(Parts)	4
2.2. SV Series Dual Encoder Low-Voltage Servo Motor(Parts)	8
2.3. SV Series High-Voltage Servo Motor Model(Parts)	10
3. SV Series Servo Motor Drawings(Parts)	14
3.1. 60-100W Series (Parts)	14
3.2. 60-200W Series (Parts)	15
3.3. 60-400W Series (Parts)	17
60-600W Series (Parts)	18
80-750W Series (Parts)	20
80-1000W Series (Parts)	21
110-1000W Series (Parts)	22
130-1500W Series (Parts)	24
130-2000W Series (Parts)	25
130-3000W Series (Parts)	26
180-3000W Series (Parts)	29
180-4000W Series (Parts)	30
180-4200W Series (Parts)	31
180-5500W Series (Parts)	33
180-5700W Series (Parts)	34
180-7500W Series (Parts)	35
220-15KW Series (Parts)	37
220-20KW Series (Parts)	38

1. Company Profile

Shanghai TongYi Automation Technology Co., Ltd. was established in November 2014, originating from the Robotics and Intelligent Systems Research Laboratory of TongJi University. The company is headquartered in Shanghai and has production and research centers in Suzhou and Changzhou. The company's mission is to create value for customers and focuses on the research and development of industrial controllers and drive systems, providing complete solutions for industrial automation equipment. The company's main products include low-voltage (DC) servo motors, low-voltage (DC) servo drives, industrial controllers, remote I/O, AGV steering wheel and other independent brand products, serving more than 1000 customers. The products are widely used in mobile robots, heavy-duty AGVs, unmanned forklifts, inspection robots, medical equipment, collaborative robots, servo presses, corrugated packaging and other industries.

The company adheres to the concept of technological innovation and currently has a team of dozens of R&D and industry application engineers. In 2016, the company was selected as one of the "Top 50 Entrepreneurs with the Most Investment Potential in Shanghai", and in 2017, it was selected as a "National High tech Enterprise" and "Academician Expert Workstation" in Shanghai. In 2018, it was awarded the "Excellent Enterprise Award" by the Growth Group of the National Innovation and Entrepreneurship Competition, the "Technology Giant Enterprise in YangPu District, Shanghai", and the "Top 30 Manufacturing New Power Enterprises in China" selected by Yiou.

On a global scale, the demand for industrial controllers, drives, and other automation industries is increasing. We hope to collaborate with global partners to supply and contribute to the development of the global manufacturing industry.

2. Servo Motor Introduction



- **Motor Type:** Permanent magnet synchronous motor(PMSM).
- **Input Voltage:** 24/48/72V/96V/110V/310V/560V
- **Power Range:** 50W-25KW.
- **Feedback Supported:** Incremental Encoder,Absolute Encoder,Resolver.
- **Supporting Dual Encoder,** achieves up to PL=D, category 2 functional safety under EN ISO 13849-1.

2.1. SV Series Servo Motor Model Model Definition



Description:

1. **Motor Flange,** 130 represents that the motor flange is 130.
2. **Motor Series,** SV represents SV series.
3. **Motor Power,** 150 represents 1500W.
4. **Rated Speed,** 30 represents the rated speed is 3000rpm.
5. **DC Supply voltage:**

- A represents 24VDC
- B represents 48VDC
- C represents 72VDC
- D represents 310V or 220VAC
- E represents 560V or 380VAC
- F represents 96VDC
- G represents 110VDC

6. Motor Encoder Type:

- A represents Incremental Encoder(magnetic)
- B represents Absolute Encoder(NRZ-Mode)
- C represents Postal Absolute Encoder(BiSS C-Mode)
- D represents Kubole Absolute Encoder(BiSS C-Mode)
- E represents Incremental Encoder(optical)
- F represents Resolver

7. Auxiliary Encoder Type:

- A represents Incremental Encoder(magnetic)
- B represents Absolute Encoder(NRZ-Mode)
- C represents Postal Absolute Encoder(BiSS C-Mode)
- D represents Kubole Absolute Encoder(BiSS C-Mode)
- E represents Incremental Encoder(optical)
- F represents Resolver

This Encoder will be used to Safety Encoder.

8. Motor Brake:

- Z24 represents that brake voltage is 24V
- Z48 represents that brake voltage is 48V

9. **SXXX.XX.XX** is the description of the motor sizes. XXX represents the length of the motor boar, the 1st XX represents the shaft length of the motor, and the 2nd XX represents the shaft diameter of the motor.

Additional Code Description:

- 10. DI45: Hobbing Shaft:** DI45 represents that the shaft is suitable for fixed models of reducers.
- 11. H: Encoder Cable Terminal Type:** H represents Aviation Plug. No code represents default Molex Plug.
- 12. CLXX:** Cable Length of the motor itself, 10 represents 1m. No code represents 65cm.
- 13. 65: Protection Class,** 65 represents IP65. No code represents default class is IP54.
- 14. T: Temperature Sensor,** T represents that the sensor is installed.
- 15. MxxLxx:** The specifications of the threaded holes if the motor is equipped with threaded holes.
- 16. x: Internal code** represents the sequence of the motor manufacturing.

2.1. SV Series Low-Voltage Servo Motor(Parts)

40 series Servo Motor(PMSM)								
Motor Model	Driver Input Voltage (VDC)	Rated Power (kW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Detailed Parameters
40SV-10030BA(-Z)	48	0.1	0.32	0.64	3000	4	Incremental Encoder (2500 lines)	Drawings
40SV-10030BB(-Z)							Absolute Encoder(NRZ-Mode)	
40SV-10030AC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	

60 series Servo Motor(PMSM)								
Motor Model	Driver Input Voltage (VDC)	Rated Power (kW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Detailed Parameters
60SV-01030AA(-Z)	24V	0.1	0.32	0.6	3000	7.0	Incremental Encoder (2500 lines)	Drawings
60SV-01030AB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-01030AC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-01030BA(-Z)						4.0	Incremental Encoder (2500 lines)	
60SV-01030BB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-01030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-01030CA(-Z)						3.0	Incremental Encoder (2500 lines)	
60SV-01030CB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-01030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-01030FA(-Z)						2.5	Incremental Encoder (2500 lines)	
60SV-01030FB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-01030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-02030AA(-Z)	24	0.2	0.64	1.28	3000	10	Incremental Encoder (2500 lines)	Drawings
60SV-02030AB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-02030AC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-02030BA(-Z)						5.5	Incremental Encoder (2500 lines)	
60SV-02030BB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-02030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-02030CA(-Z)						3.7	Incremental Encoder (2500 lines)	
60SV-02030CB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-02030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-02030FA(-Z)						2.8	Incremental Encoder (2500 lines)	
60SV-02030FB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-02030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-04030AA(-Z)	24	0.4	1.28	2.56	3000	20	Incremental Encoder (2500 lines)	Drawings
60SV-04030AB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-04030AC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-04030BA(-Z)						11	Incremental Encoder (2500 lines)	
60SV-04030BB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-04030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-04030CA(-Z)						7.3	Incremental Encoder (2500 lines)	
60SV-04030CB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-04030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-04030FA(-Z)						5.5	Incremental Encoder (2500 lines)	
60SV-04030FB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-04030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-06030BA(-Z)	48	0.6	1.9	3.8	3000	15.5	Incremental Encoder (2500 lines)	Drawings
60SV-06030BB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-06030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-06030CA(-Z)						10.5	Incremental Encoder (2500 lines)	
60SV-06030CB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-06030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
60SV-06030FA(-Z)						8	Incremental Encoder (2500 lines)	
60SV-06030FB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-06030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	

SV Series Low&High Voltage Servo Motor Selection Guide

80 Series Servo Motor(PMSM)								
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encode Type	Detailed Parameters
80SV-04030AA(-Z)	24	0.4	1.28	2.56	3000	20	Incremental Encoder (2500 lines)	Drawings
80SV-04030AB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-04030AC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-04030BA(-Z)						11	Incremental Encoder (2500 lines)	
80SV-04030BB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-04030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-04030CA(-Z)						7.3	Incremental Encoder (2500 lines)	
80SV-04030CB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-04030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-04030FA(-Z)	72	0.75	2.40	4.8	3000	5.5	Incremental Encoder (2500 lines)	Drawings
80SV-04030FB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-04030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-07530AA(-Z)						35	Incremental Encoder (2500 lines)	
80SV-07530AB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-07530AC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-07530BA(-Z)	48	1.0	3.20	6.4	3000	22	Incremental Encoder (2500 lines)	Drawings
80SV-07530BB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-07530BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-07530CA(-Z)						14	Incremental Encoder (2500 lines)	
80SV-07530CB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-07530CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-07530FA(-Z)						11	Incremental Encoder (2500 lines)	
80SV-07530FB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-07530FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-10030BA(-Z)	72	1.5	4.77	9.54	3000	29	Incremental Encoder (2500 lines)	Drawings
80SV-10030BB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-10030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-10030CA(-Z)						19.5	Incremental Encoder (2500 lines)	
80SV-10030CB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-10030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
80SV-10030FA(-Z)						15	Incremental Encoder (2500 lines)	
80SV-10030FB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-10030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	

110 Series Servo Motor(PMSM)								
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encode Type	Detailed Parameters
110SV-10030BA(-Z)	48	1.0	3.20	6.4	3000	29	Incremental Encoder (2500 lines)	Drawings
110SV-10030BB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-10030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
110SV-10030CA(-Z)						19.5	Incremental Encoder (2500 lines)	
110SV-10030CB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-10030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
110SV-10030FA(-Z)						15	Incremental Encoder (2500 lines)	
110SV-10030FB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-10030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
110SV-15030BA(-Z)	72	1.5	4.77	9.54	3000	39	Incremental Encoder (2500 lines)	Drawings
110SV-15030BB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-15030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
110SV-15030CA(-Z)						26	Incremental Encoder (2500 lines)	
110SV-15030CB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-15030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
110SV-15030FA(-Z)						19	Incremental Encoder (2500 lines)	
110SV-15030FB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-15030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	

SV Series Low&High Voltage Servo Motor Selection Guide

130 Series Servo Motor(PMSM)								
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encode Type	Detailed Parameters
130SV-15025BA(-Z)	48	1.5	6.00	12	1500	39	Incremental Encoder (2500 lines)	Drawings
130SV-15025BB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-15025BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-15025CA(-Z)						26	Incremental Encoder (2500 lines)	
130SV-15025CB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-15025CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-15025FA(-Z)						19	Incremental Encoder (2500 lines)	
130SV-15025FB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-15025FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-15030BA(-Z)	48	1.5	4.77	9.54	3000	39	Incremental Encoder (2500 lines)	Drawings
130SV-15030BB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-15030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-15030CA(-Z)						26	Incremental Encoder (2500 lines)	
130SV-15030CB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-15030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-15030FA(-Z)						19	Incremental Encoder (2500 lines)	
130SV-15030FB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-15030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-20020BA(-Z)	48	2.0	9.55	19	2000	58	Incremental Encoder (2500 lines)	Drawings
130SV-20020BB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-20020BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-20020CA(-Z)						39	Incremental Encoder (2500 lines)	
130SV-20020CB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-20020CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-20020FA(-Z)						30	Incremental Encoder (2500 lines)	
130SV-20020FB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-20020FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-25020BA(-Z)	48	2.5	12.50	25	2000	63	Incremental Encoder (2500 lines)	Drawings
130SV-25020BB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-25020BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-25020CA(-Z)						43	Incremental Encoder (2500 lines)	
130SV-25020CB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-25020CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-25020FA(-Z)						32	Incremental Encoder (2500 lines)	
130SV-25020FB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-25020FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-30030BA(-Z)	48	3.0	9.55	19.1	3000	72	Incremental Encoder (2500 lines)	Drawings
130SV-30030BB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-30030BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-30030CA(-Z)						48	Incremental Encoder (2500 lines)	
130SV-30030CB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-30030CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-30030FA(-Z)						36	Incremental Encoder (2500 lines)	
130SV-30030FB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-30030FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-30020BA(-Z)	48	3.0	14.30	18.6	2000	66	Incremental Encoder (2500 lines)	Drawings
130SV-30020BB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-30020BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-30020CA(-Z)						44	Incremental Encoder (2500 lines)	
130SV-30020CB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-30020CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-30020FA(-Z)						33	Incremental Encoder (2500 lines)	
130SV-30020FB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-30020FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
130SV-32015BA(-Z)	48	3.2	20.00	40	1500	75	Incremental Encoder (2500 lines)	Drawings
130SV-32015BB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-32015CA(-Z)						50	Incremental Encoder (2500 lines)	
130SV-32015CB(-Z)							Absolute Encoder(NRZ-Mode)	
130SV-32015FA(-Z)						38	Incremental Encoder (2500 lines)	
130SV-32015FB(-Z)							Absolute Encoder(NRZ-Mode)	

SV Series Low&High Voltage Servo Motor Selection Guide

180 Series Servo Motor(PMSM)								
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encode Type	Detailed Parameters
180SV-30015BA(-Z)	48	3.0	14.30	28.6	1500	75	Incremental Encoder (2500 lines)	Drawings
180SV-30015BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-30015CA(-Z)						50	Incremental Encoder (2500 lines)	
180SV-30015CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-30015FA(-Z)						38	Incremental Encoder (2500 lines)	
180SV-30015FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-40020BA(-Z)	48	4.0	19.50	39	2000	95	Incremental Encoder (2500 lines)	Drawings
180SV-40020BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-40020CA(-Z)						65	Incremental Encoder (2500 lines)	
180SV-40020CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-40020FA(-Z)						48	Incremental Encoder (2500 lines)	
180SV-40020FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-42015BA(-Z)	48	4.2	27.00	54	1500	115	Incremental Encoder (2500 lines)	Drawings
180SV-42015BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-42015CA(-Z)						77	Incremental Encoder (2500 lines)	
180SV-42015CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-42015FA(-Z)						58	Incremental Encoder (2500 lines)	
180SV-42015FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-55015BA(-Z)	48	5.5	35.00	70	1500	140	Incremental Encoder (2500 lines)	Drawings
180SV-55015BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-55015CA(-Z)						93	Incremental Encoder (2500 lines)	
180SV-55015CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-55015FA(-Z)						72	Incremental Encoder (2500 lines)	
180SV-55015FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-57020BA(-Z)	48	5.7	27.00	54	2000	145	Incremental Encoder (2500 lines)	Drawings
180SV-57020BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-57020CA(-Z)						97	Incremental Encoder (2500 lines)	
180SV-57020CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-57020FA(-Z)						73	Incremental Encoder (2500 lines)	
180SV-57020FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-75015BA(-Z)	48	7.5	48.00	96	1500	200	Incremental Encoder (2500 lines)	Drawings
180SV-75015BC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-75015CA(-Z)						133	Incremental Encoder (2500 lines)	
180SV-75015CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-75015FA(-Z)						101	Incremental Encoder (2500 lines)	
180SV-75015FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-100015CA(-Z)	72	10.0	64.00	128.00	1500	178	Incremental Encoder (2500 lines)	Drawings
180SV-100015CC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
180SV-100015FA(-Z)						192	Incremental Encoder (2500 lines)	
180SV-100015FC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	

220 Series Servo Motor(PMSM)								
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encode Type	Detailed Parameters
220SV-100015CA(-Z)	72	10.0	64.00	128	1500	160	Incremental Encoder (2500 lines)	Drawings
220SV-100015FA(-Z)							Incremental Encoder (2500 lines)	
220SV-150015CA(-Z)						240	Incremental Encoder (2500 lines)	
220SV-150015FA(-Z)							Incremental Encoder (2500 lines)	
220SV-200015FA(-Z)						245	Incremental Encoder (2500 lines)	

2.2. SV Series Dual Encoder Low-Voltage Servo Motor(Parts)

40 Series Dual Encoder Servo Motor(PMSM)									
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encoder1	Encoder2	Detailed Parameters
40SV-10030BAA(-Z)	48	0.1	0.32	0.64	3000	4	Incremental Encoder (2500 lines)	Incremental Encoder (2500 lines)	Drawings
60 Series Dual Encoder Servo Motor(PMSM)									
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encoder1 Incremental Encoder (2500 lines)	Encoder2 Incremental Encoder (2500 lines)	Detailed Parameters Drawings
60SV-01030AAA(-Z)	24V	0.1	0.32	0.6	3000	7.0			
60SV-01030BAA(-Z)	48					4.0			
60SV-01030CAA(-Z)	72					3.0			
60SV-02030AAA(-Z)	24	0.2	0.64	1.28	3000	10			
60SV-02030BAA(-Z)	48					5.5			
60SV-02030CAA(-Z)	72					3.7			
60SV-04030AAA(-Z)	24	0.4	1.28	2.56	3000	20			
60SV-04030BAA(-Z)	48					11			
60SV-04030CAA(-Z)	72					7.3			
60SV-06030BAA(-Z)	48	0.6	1.90	3.2	3000	15.5			
60SV-06030CAA(-Z)	72					10.5			
80 Series Dual Encoder Servo Motor(PMSM)									
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encoder1	Encoder2	Detailed Parameters
80SV-04030AAA(-Z)	24	0.4	1.28	2.56	3000	20	Encoder1 Incremental Encoder (2500 lines)	Encoder2 Incremental Encoder (2500 lines)	Detailed Parameters Drawings
80SV-04030BAA(-Z)	48					11			
80SV-04030CAA(-Z)	72					7.3			
80SV-07530AAA(-Z)	24	0.75	2.40	4.8	3000	35			
80SV-07530BAA(-Z)	48					22			
80SV-07530CAA(-Z)	72					14			
80SV-10030BAA(-Z)	48	1.0	3.20	6.4	3000	29			
80SV-10030CAA(-Z)	72					19.5			
110 Series Dual Encoder Servo Motor(PMSM)									
Motor Model	Driver Input Voltage (VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encoder1	Encoder2	Detailed Parameters
110SV-10030BAA(-Z)	48	1.0	3.20	6.4	3000	29	Encoder1 Incremental Encoder(2500 lines)	Encoder2 Incremental Encoder(2500 lines)	Detailed Parameters Drawings
110SV-10030CAA(-Z)	72					19.5			
110SV-15030BAA(-Z)	48	1.5	4.77	9.54	3000	39			
110SV-15030CAA(-Z)	72					26			
130 Series Dual Encoder Servo Motor(PMSM)									
Motor Model	Driver Input Voltage(VDC)	Rated Power(KW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed(rpm)	Rated Current(A)	Encoder1	Encoder2	Detailed Parameters
130SV-15025BAA(-Z)	48	1.5	6.00	12	1500	39	Encoder1 Incremental Encoder(2500 lines)	Encoder2 Incremental Encoder(2500 lines)	Detailed Parameters Drawings
130SV-15025CAA(-Z)	72					26			
130SV-15030BAA(-Z)	48	1.5	4.77	9.54	3000	39			
130SV-15030CAA(-Z)	72					26			
130SV-20020BAA(-Z)	48	2.0	9.55	19	2000	58			
130SV-20020CAA(-Z)	72					39			
130SV-25020BAA(-Z)	48	2.5	12.50	25	2000	63			
130SV-25020CAA(-Z)	72					43			
130SV-30030BAA(-Z)	48	3.0	9.55	19.1	3000	72			
130SV-30030CAA(-Z)	72					48			
130SV-30020BAA(-Z)	48	3.0	14.30	18.6	2000	66			
130SV-30020CAA(-Z)	72					44			
130SV-32015BAA(-Z)	48	3.2	20.00	40	1500	75			
130SV-32015CAA(-Z)	72					50			

SV Series Low&High Voltage Servo Motor Selection Guide

180 Series Dual Encoder Servo Motor(PMSM)									
Motor Model	Driver Input Voltage(VDC)	Rated Power (kW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current(A)	Encoder1	Encoder2	Detailed Parameters
180SV-30015BAA(-Z)	48	3.0	14.30	28.6	1500	75	Incremental Encoder(2500 lines)	Incremental Encoder(2500 lines)	Drawings
180SV-30015CAA(-Z)	72					50			
180SV-40020BAA(-Z)	48	4.0	19.50	39	2000	95			
180SV-40020CAA(-Z)	72					65			
180SV-42015BAA(-Z)	48	4.2	27.00	54	1500	115			
180SV-42015CAA(-Z)	72					77			
180SV-55015BAA(-Z)	48	5.5	35.00	70	1500	140			
180SV-55015CAA(-Z)	72					93			
180SV-57020BAA(-Z)	48	5.7	27.00	54	2000	145			
180SV-57020CAA(-Z)	72					97			
180SV-75015BAA(-Z)	48	7.5	48.00	96	1500	200			
180SV-75015CAA(-Z)	72					133			

2.3. SV Series High-Voltage Servo Motor Model(Parts)

60 Series High Voltage Servo Motor(PMSM)								
Motor Model	Driver Input Voltage	Rated Power (kW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Detailed Parameters
60SV-01030DA(-Z)	220VAC 310VDC	0.1	0.32	0.6	3000	0.8	Incremental Encoder (2500 lines)	Drawings
60SV-01030DB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-01030DC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
60SV-01030EA(-Z)						0.4	Incremental Encoder (2500 lines)	
60SV-01030EB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-01030EC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
60SV-02030DA(-Z)	220VAC 310VDC	0.2	0.64	1.28	3000	1.2	Incremental Encoder (2500 lines)	Drawings
60SV-02030DB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-02030DC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
60SV-02030EA(-Z)						0.7	Incremental Encoder (2500 lines)	
60SV-02030EB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-02030EC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
60SV-04030DA(-Z)	220VAC 310VDC	0.4	1.28	2.56	3000	2.8	Incremental Encoder (2500 lines)	Drawings
60SV-04030DB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-04030DC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
60SV-04030EA(-Z)						1.6	Incremental Encoder (2500 lines)	
60SV-04030EB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-04030EC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
60SV-06030DA(-Z)	220VAC 310VDC	0.6	1.90	3.8	3000	3.5	Incremental Encoder (2500 lines)	Drawings
60SV-06030DB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-06030DC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
60SV-06030EA(-Z)						1.9	Incremental Encoder (2500 lines)	
60SV-06030EB(-Z)							Absolute Encoder(NRZ-Mode)	
60SV-06030EC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	

80 Series High Voltage Servo Motor(PMSM)								
Motor Model	Driver Input Voltage	Rated Power (kW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Detailed Parameters
80SV-04030DA(-Z)	220VAC 310VDC	0.4	1.28	2.56	3000	1.2	Incremental Encoder (2500 lines)	Drawings
80SV-04030DB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-04030DC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
80SV-04030EA(-Z)						0.7	Incremental Encoder (2500 lines)	
80SV-04030EB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-04030EC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
80SV-07530DA(-Z)	220VAC 310VDC	0.75	2.40	4.8	3000	3.0	Incremental Encoder (2500 lines)	Drawings
80SV-07530DB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-07530DC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
80SV-07530EA(-Z)						1.7	Incremental Encoder (2500 lines)	
80SV-07530EB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-07530EC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
80SV-10030DA(-Z)	220VAC 310VDC	1.0	3.20	6.4	3000	4.1	Incremental Encoder (2500 lines)	Drawings
80SV-10030DB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-10030DC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	
80SV-10030EA(-Z)						2.3	Incremental Encoder (2500 lines)	
80SV-10030EB(-Z)							Absolute Encoder(NRZ-Mode)	
80SV-10030EC(-Z)							Posital Absolute Encoder(BIIS C-Mode)	

110 Series High Voltage Servo Motor(PMSM)								
Motor Model	Driver Input Voltage	Rated Power (kW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Detailed Parameters
110SV-10030DA(-Z)	220VAC 310VDC	1.0	3.20	6.4	3000	4.1	Incremental Encoder (2500 lines)	Drawings
110SV-10030DB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-10030DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
110SV-10030EA(-Z)							Incremental Encoder (2500 lines)	
110SV-10030EB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-10030EC(-Z)		1.5	4.77	9.54	3000	2.3	Posital Absolute Encoder(BiSS C-Mode)	
110SV-15030DA(-Z)							Incremental Encoder (2500 lines)	
110SV-15030DB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-15030DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	
110SV-15030EA(-Z)							Incremental Encoder (2500 lines)	
110SV-15030EB(-Z)							Absolute Encoder(NRZ-Mode)	
110SV-15030EC(-Z)							Posital Absolute Encoder(BiSS C-Mode)	

130 Series High Voltage Servo Motor(PMSM)												
Motor Model	Driver Input Voltage	Rated Power(kW)	Nominal Torque(N·m)	Max Torque(N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Detailed Parameters				
130SV-15025DA(-Z)	220VAC 310VDC	1.5	6.00	12	3000	5.9	Incremental Encoder (2500 lines)	Drawings				
130SV-15025DB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-15025DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
130SV-15025EA(-Z)							Incremental Encoder (2500 lines)					
130SV-15025EB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-15025EC(-Z)		1.5	4.77	9.54	3000	3.3	Posital Absolute Encoder(BiSS C-Mode)					
130SV-15030DA(-Z)							Incremental Encoder (2500 lines)					
130SV-15030DB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-15030DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
130SV-15030EA(-Z)							Incremental Encoder (2500 lines)					
130SV-15030EB(-Z)		1.5	9.55	19	2000	6.6	Absolute Encoder(NRZ-Mode)					
130SV-15030EC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
130SV-20020DA(-Z)		220VAC 310VDC	2.0	9.55	3000	9.4	Incremental Encoder (2500 lines)					
130SV-20020DB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-20020DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
130SV-20020EA(-Z)							Incremental Encoder (2500 lines)					
130SV-20020EB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-20020EC(-Z)			3.0	9.55	19.1	5.2	Posital Absolute Encoder(BiSS C-Mode)					
130SV-30030DA(-Z)		220VAC 310VDC					Incremental Encoder (2500 lines)					
130SV-30030DB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-30030DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
130SV-30030EA(-Z)							Incremental Encoder (2500 lines)					
130SV-30030EB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-30030EC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
130SV-30020DA(-Z)		3.0	14.30	28.6	2000	12.8	Incremental Encoder (2500 lines)					
130SV-30020DB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-30020DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
130SV-30020EA(-Z)							Incremental Encoder (2500 lines)					
130SV-30020EB(-Z)							Absolute Encoder(NRZ-Mode)					
130SV-30020EC(-Z)		3.0	14.30	28.6	2000	7.1	Posital Absolute Encoder(BiSS C-Mode)					

SV Series Low&High Voltage Servo Motor Selection Guide

180 Series High Voltage Servo Motor(PMSM)												
Motor Model	Driver Input Voltage	Rated Power (kW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Detailed				
180SV-30015DA(-Z)	220VAC 310VDC	3	19.5	39	1500	10.5	Incremental Encoder (2500 lines)					
180SV-30015DB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-30015DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-30015EA(-Z)						6.2	Incremental Encoder (2500 lines)					
180SV-30015EB(-Z)		380VAC 560VDC					Absolute Encoder(NRZ-Mode)					
180SV-30015EC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-40020DA(-Z)	220VAC 310VDC	4	19.5	39	2000	14.5	Incremental Encoder (2500 lines)					
180SV-40020DB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-40020DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-40020EA(-Z)		380VAC 560VDC				8.5	Incremental Encoder (2500 lines)					
180SV-40020EB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-40020EC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-42015DA(-Z)	220VAC 310VDC	4.2	27	54	1500	17.8	Incremental Encoder (2500 lines)					
180SV-42015DB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-42015DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-42015EA(-Z)		380VAC 560VDC				9.8	Incremental Encoder (2500 lines)					
180SV-42015EB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-42015EC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-55015DA(-Z)	220VAC 310VDC	5.5	35	70	1500	21.7	Incremental Encoder (2500 lines)	Drawings				
180SV-55015DB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-55015DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-55015EA(-Z)		380VAC 560VDC				12	Incremental Encoder (2500 lines)					
180SV-55015EB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-55015DE(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-57020DA(-Z)	220VAC 310VDC	5.7	27	54	1500	22.5	Incremental Encoder (2500 lines)					
180SV-57020DB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-57020DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-57020EA(-Z)		380VAC 560VDC				13	Incremental Encoder (2500 lines)					
180SV-57020EB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-57020EC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-75015DA(-Z)	220VAC 310VDC	7.5	48	96	1500	31	Incremental Encoder (2500 lines)					
180SV-75015DB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-75015DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-75015EA(-Z)		380VAC 560VDC				17.5	Incremental Encoder (2500 lines)					
180SV-75015EB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-75015DE(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-100015DA(-Z)	220VAC 310VDC	10	64	128	1500	41.5	Incremental Encoder (2500 lines)					
180SV-100015DB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-100015DC(-Z)							Posital Absolute Encoder(BiSS C-Mode)					
180SV-100015EA(-Z)		380VAC 560VDC				22.8	Incremental Encoder (2500 lines)					
180SV-100015EB(-Z)							Absolute Encoder(NRZ-Mode)					
180SV-100015DE(-Z)							Posital Absolute Encoder(BiSS C-Mode)					

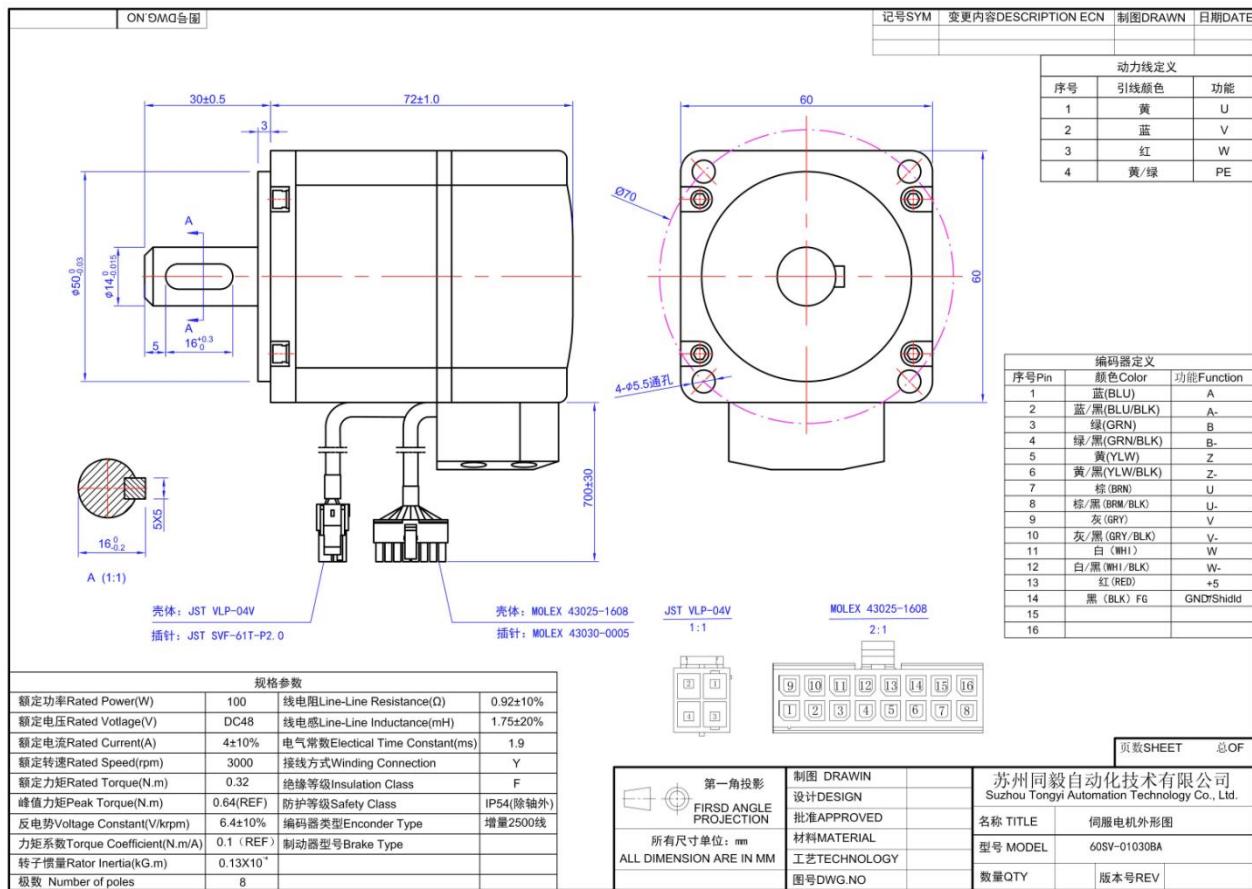
2.4. UL Series Low-Voltage Servo Motor Model

TongYi UL Series Low-Voltage Servo Motor										
Motor Model	DC Supply Voltage	Rated Power (KW)	Nominal Torque (N·m)	Max Torque (N·m)	Rated Speed (rpm)	Rated Current (A)	Encode Type	Brake	UL	
060S010A-INK	48VDC	0.1	0.64	1.28	3000	4	2500 lines	N	Y	
060S010A-IBK								Y		
060S040A-INK		0.4	1.28	2.56	3000	11		N		
060S040A-IBK								Y		
080S075A-INK		0.75	2.4	4.8	3000	22		N		
080S075A-IBK								Y		
080S100A-INK		1	3.2	6.4	3000	27		N		
080S100A-IBK								Y		
130S150A-INK		1.5	4.77	9.54	3000	39		N		
130S150A-IBK								Y		
130S150B-INK								N		
130S150B-IBK								Y		

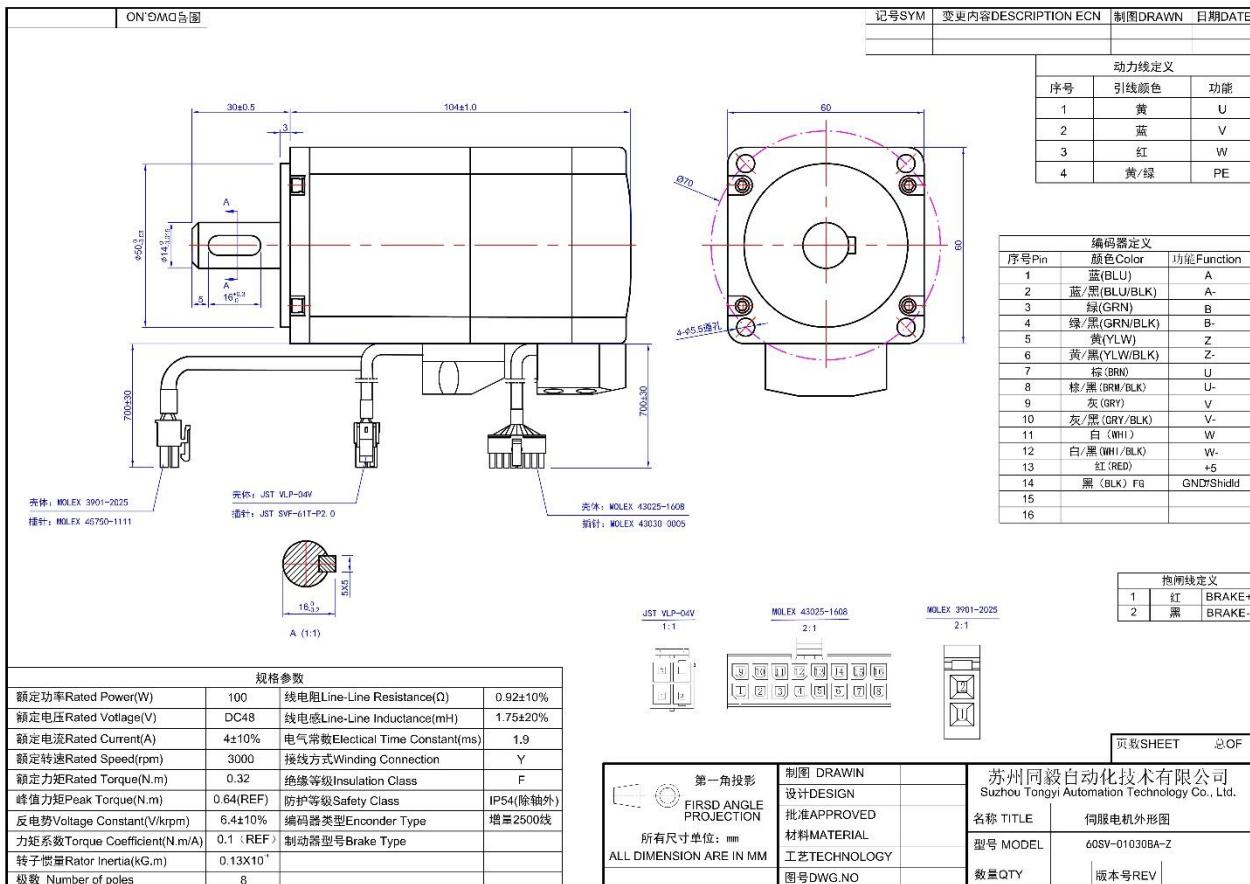
3. SV Series Servo Motor Drawings(Parts)

3.1. 60-100W Series (Parts)

60SV-01030BA



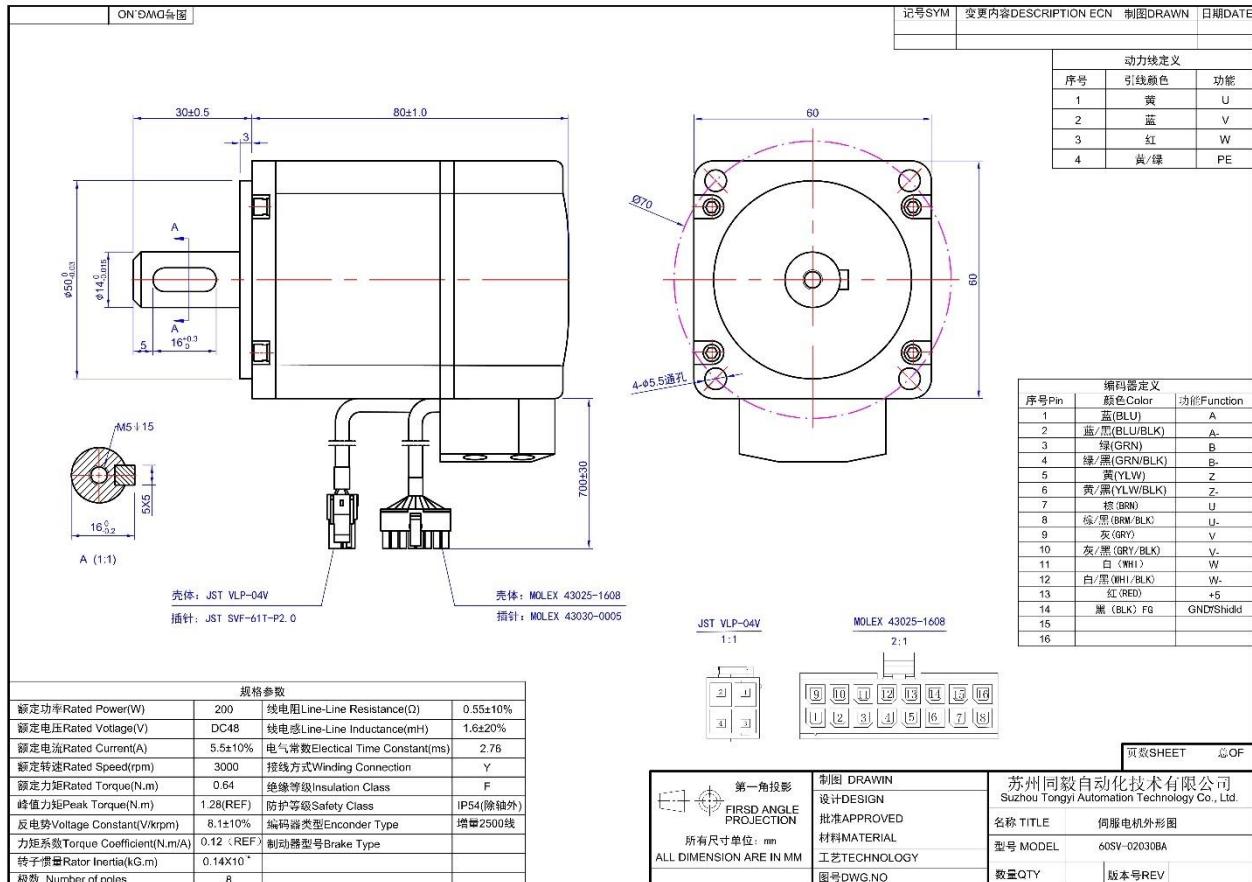
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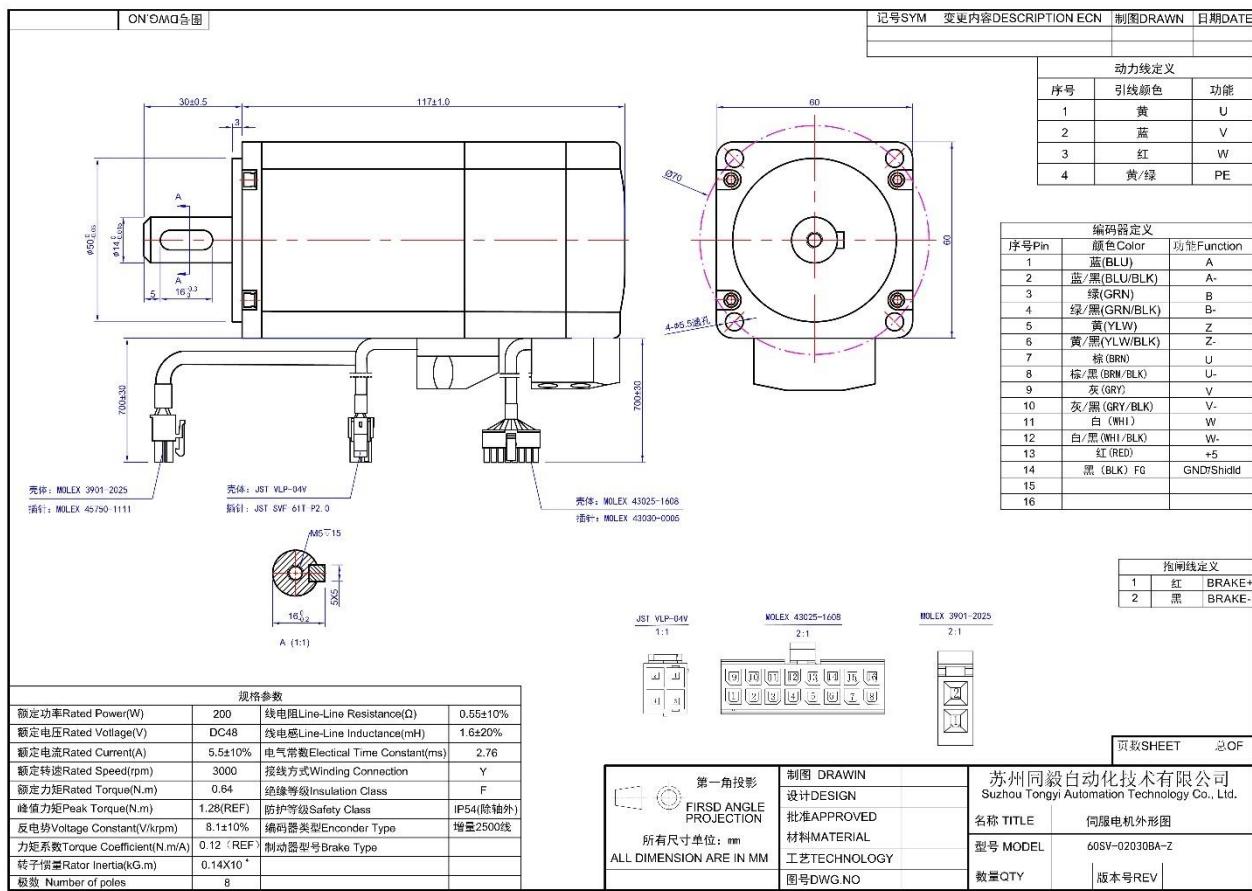
3.2. 60-200W Series (Parts)

60SV-02030BA

SV Series Low&High Voltage Servo Motor Selection Guide

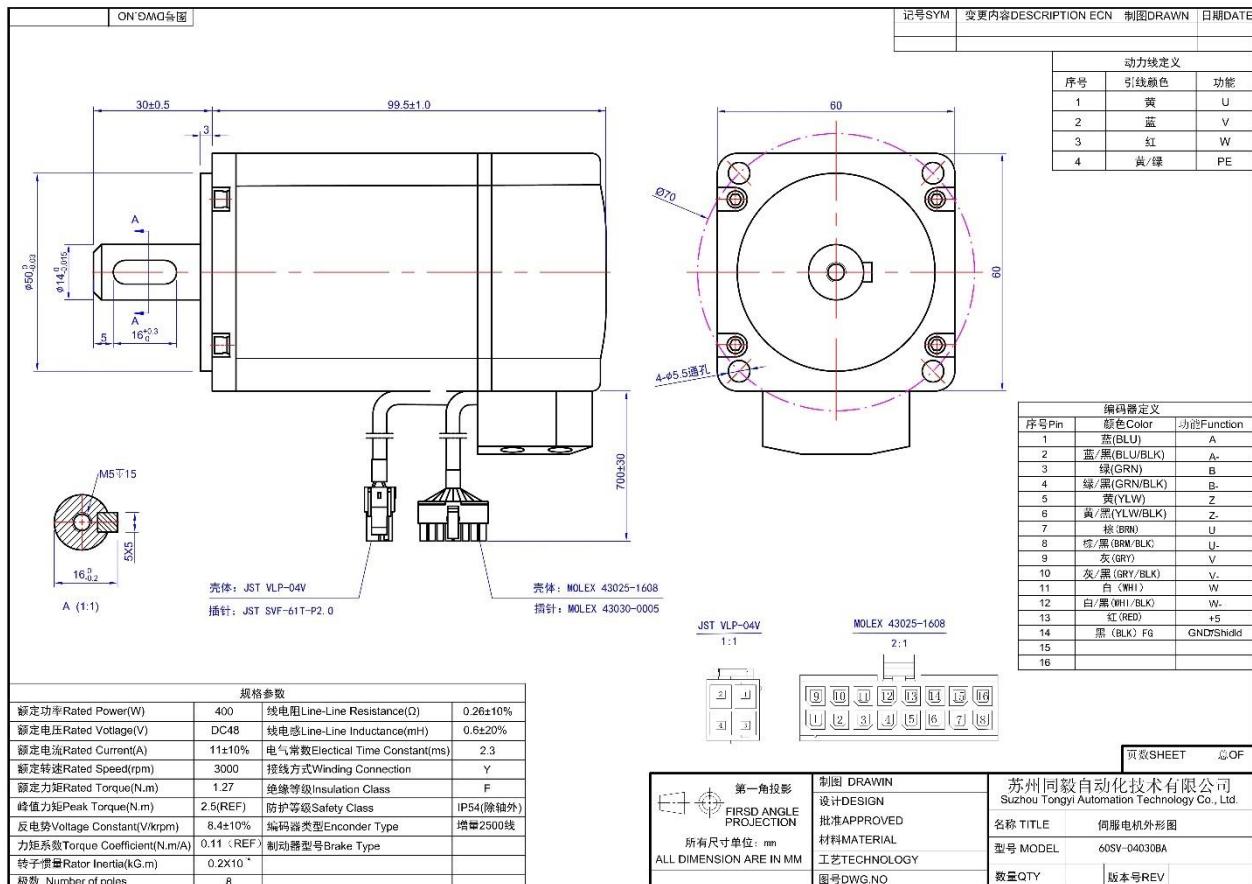


60SV-02030BA-Z



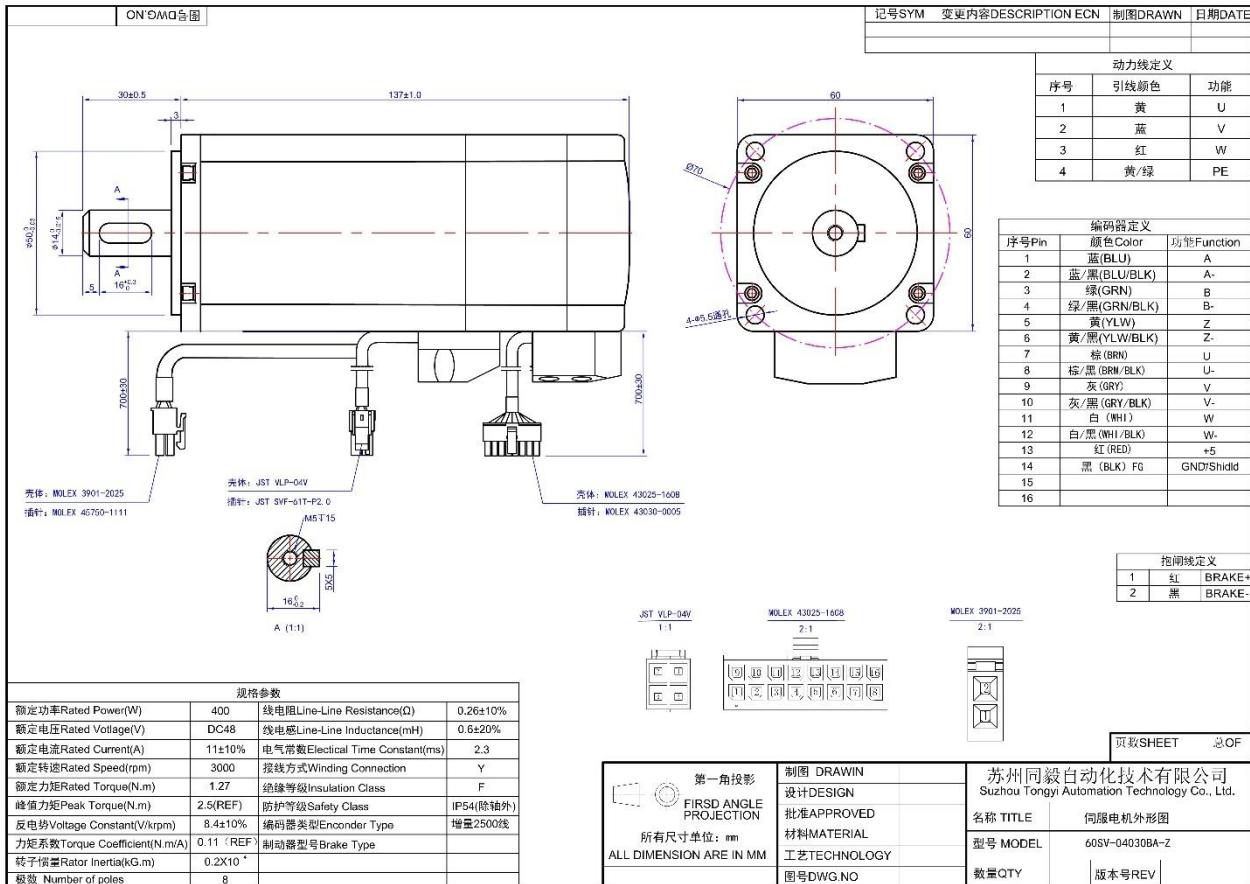
3.3. 60-400W Series (Parts)

60SV-04030BA



60SV-04030BA-Z

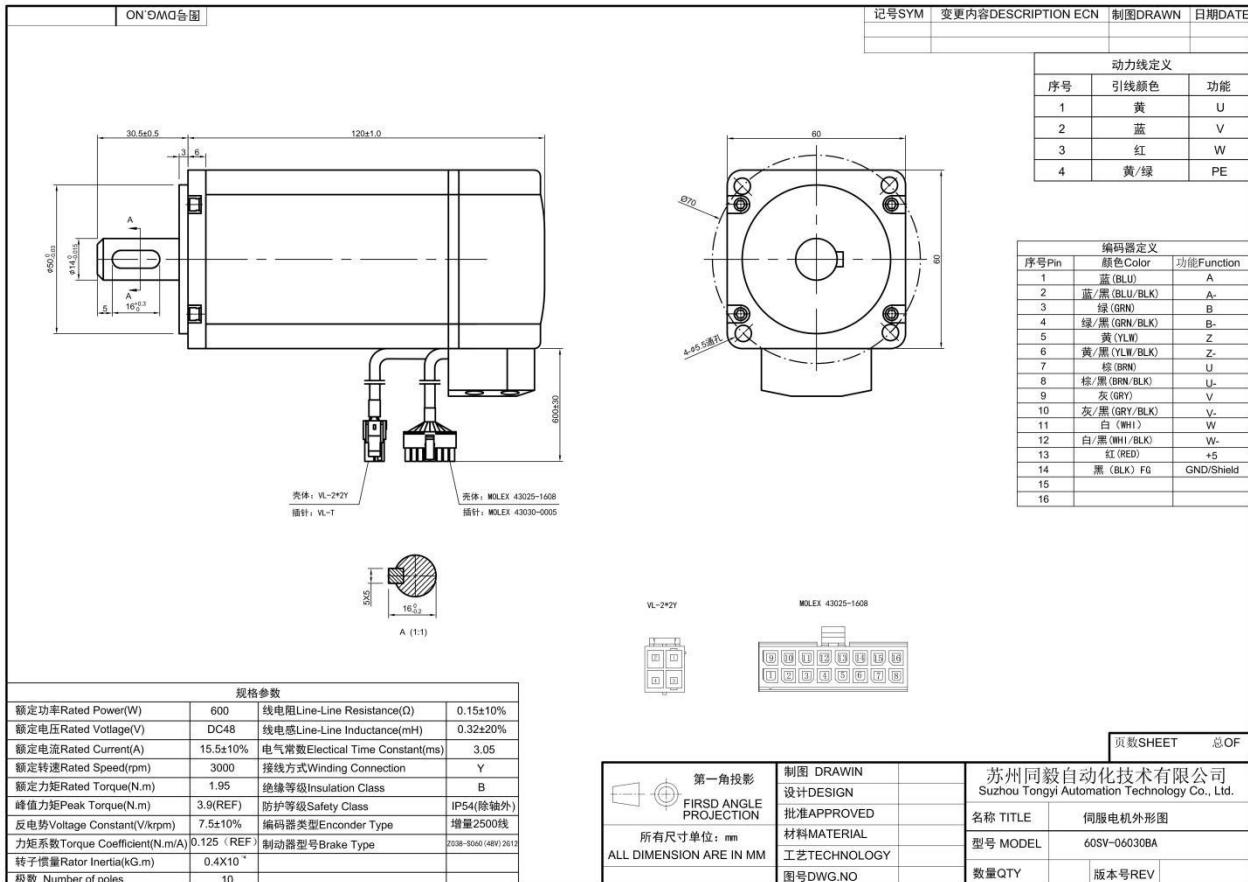
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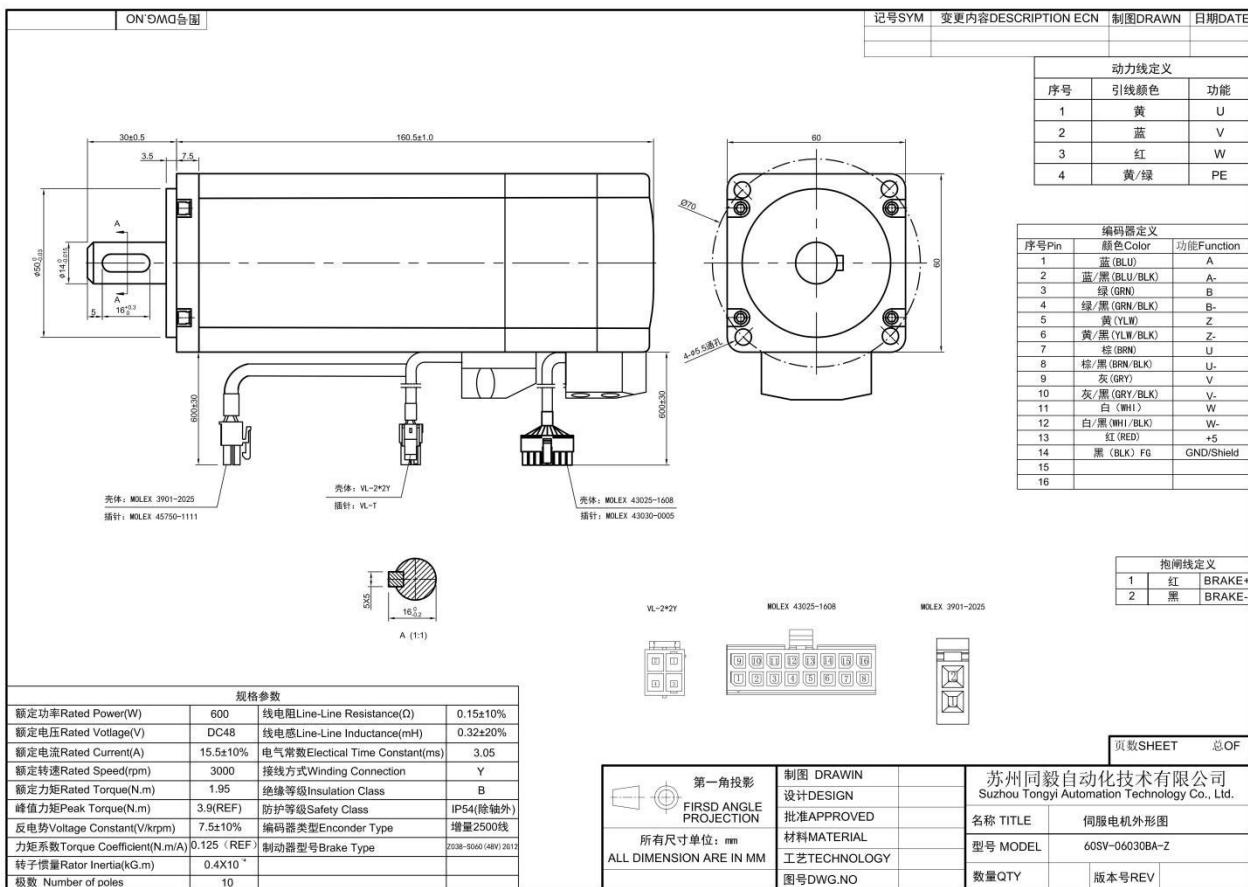
60-600W Series (Parts)

60SV-06030BA

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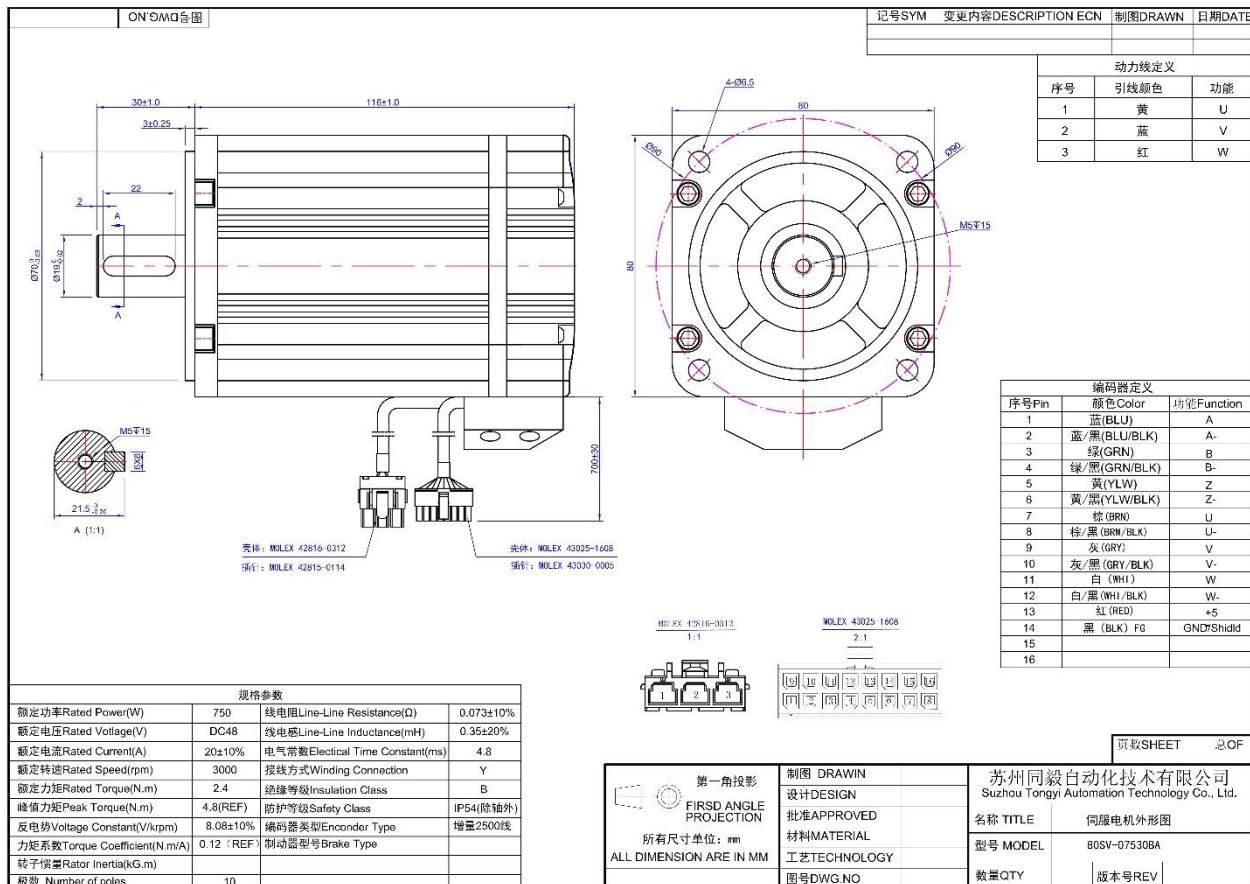


60SV-06030BA-Z

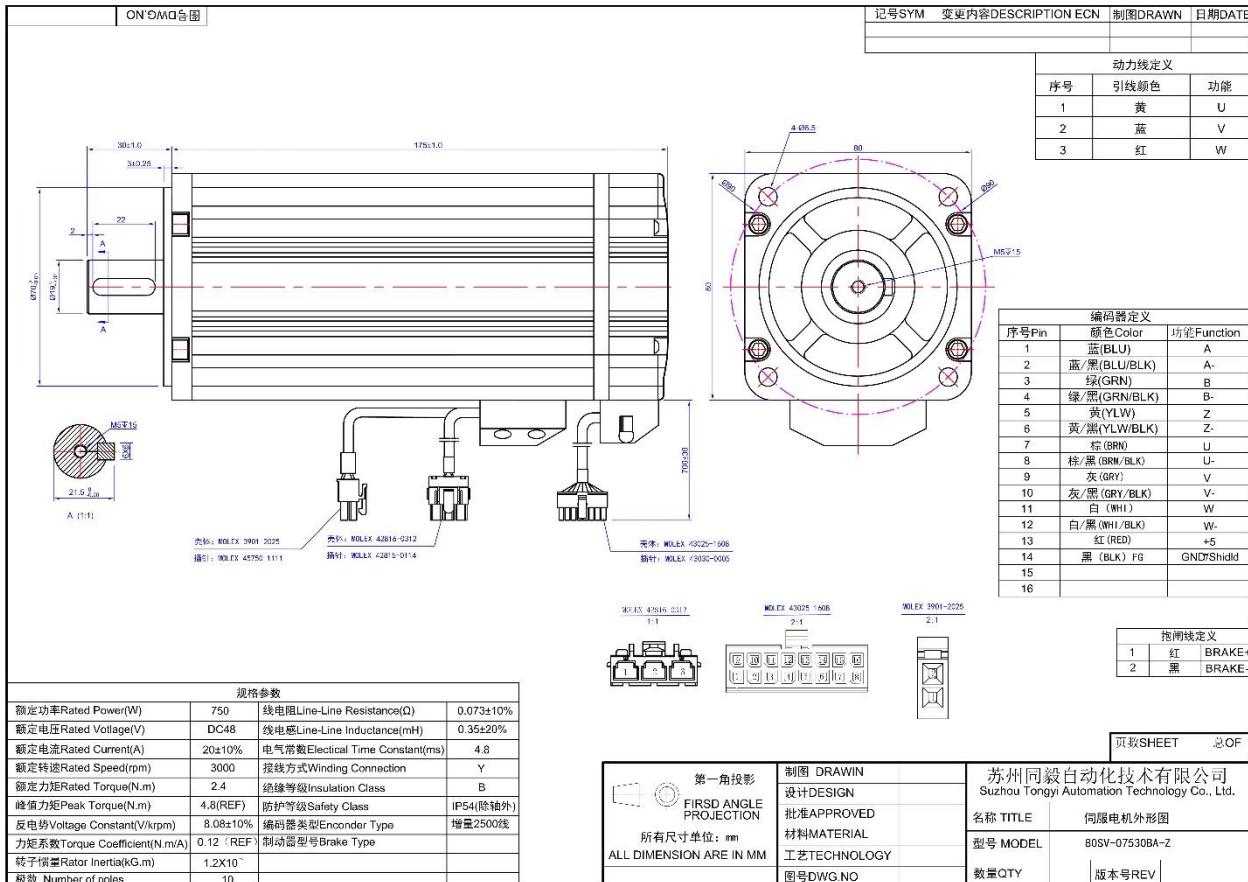


80-750W Series (Parts)

80SV-07530BA

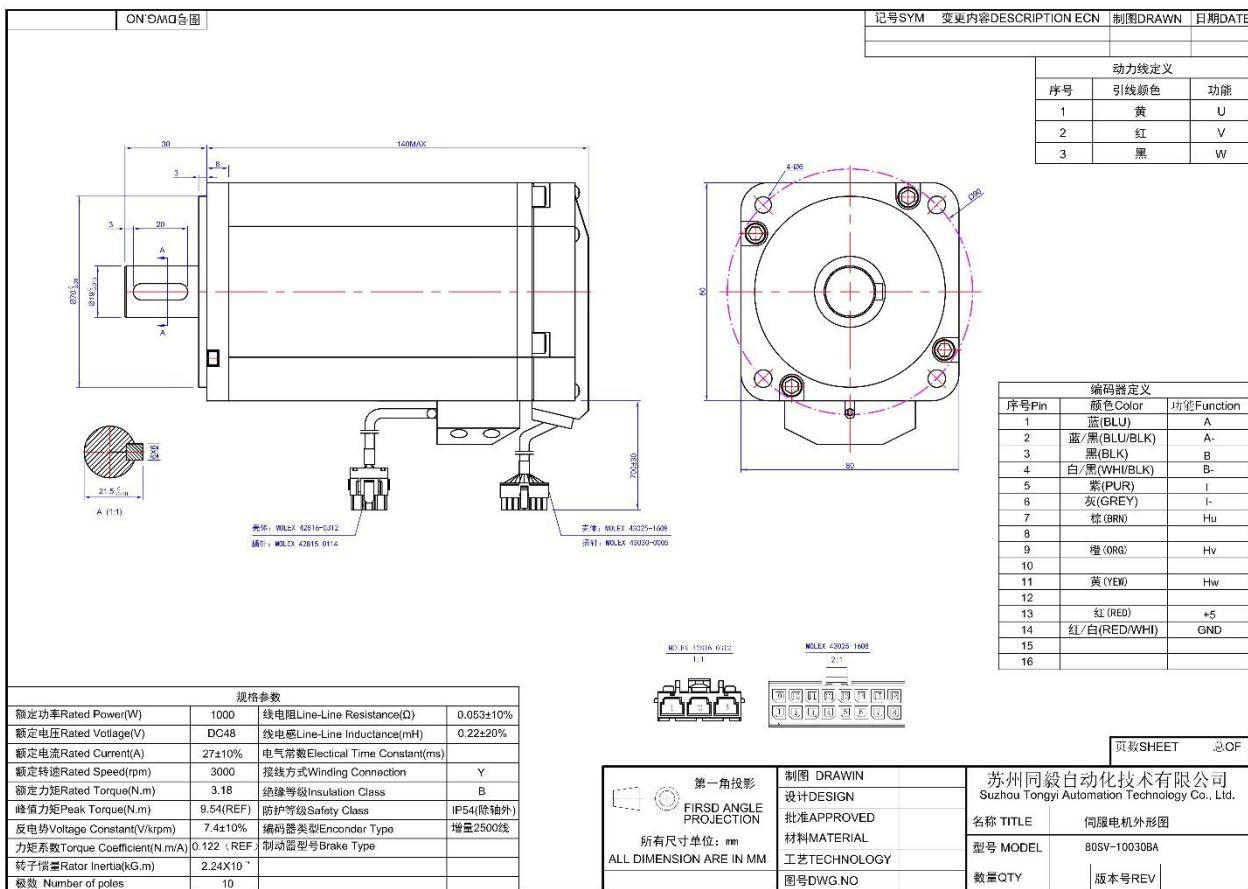


80SV-07530BA-Z

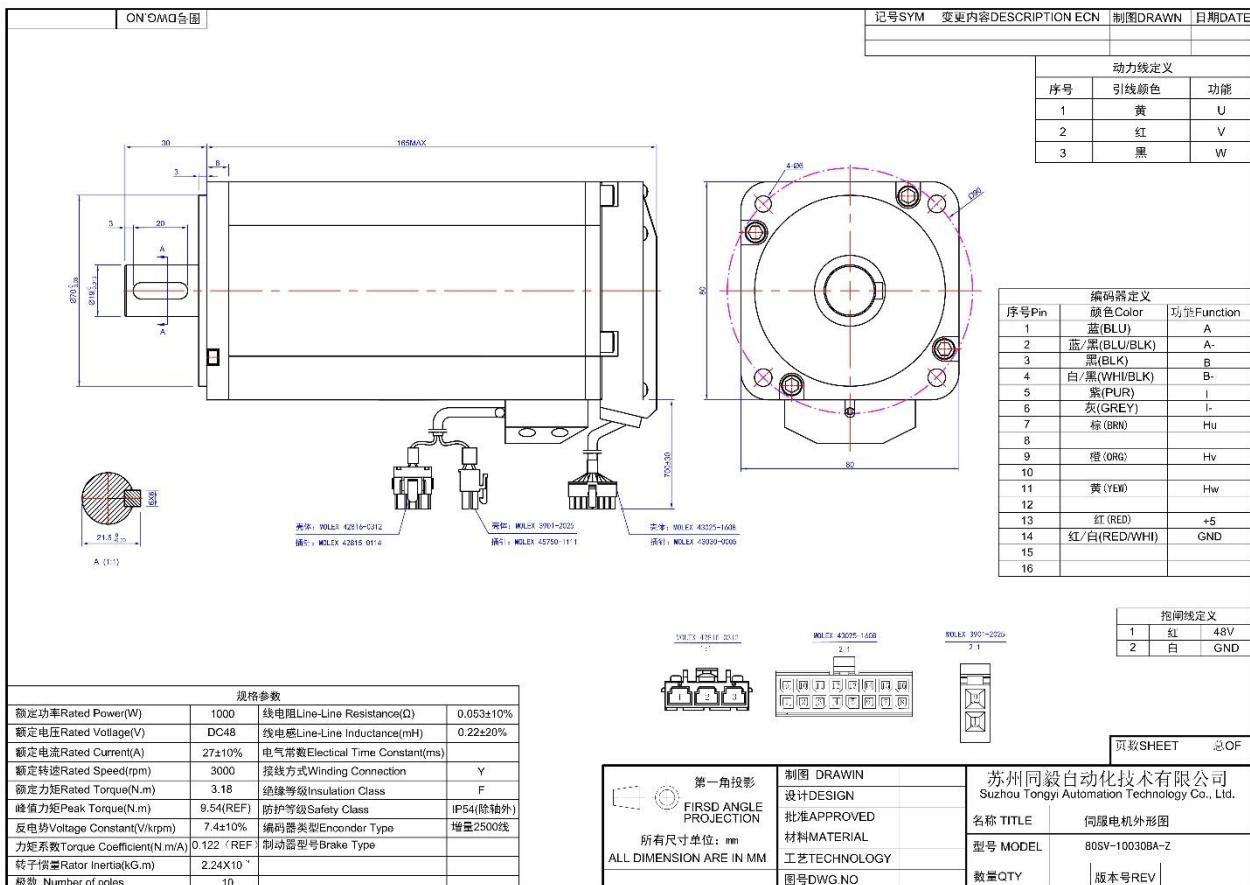


80-1000W Series (Parts)

80SV-10030BA



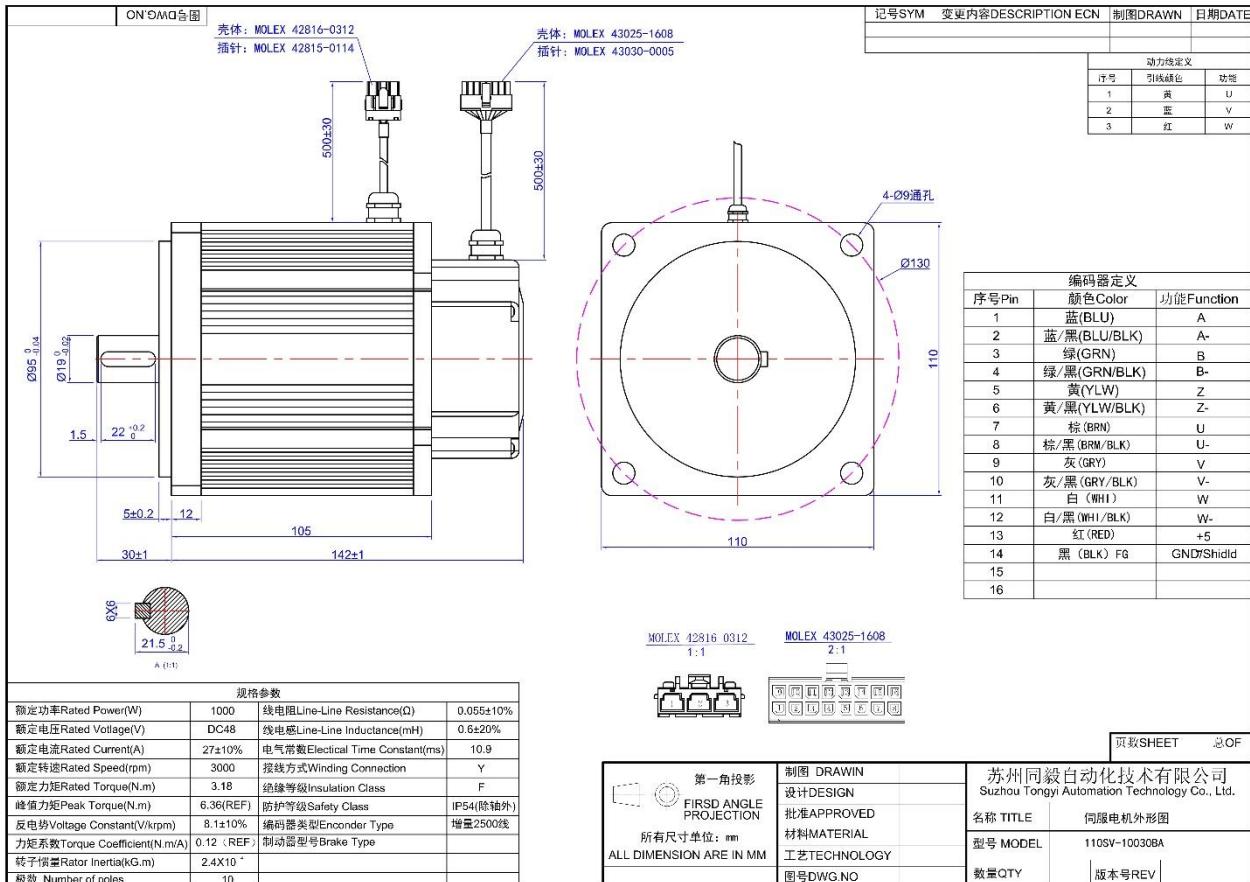
80SV-10030BA-Z



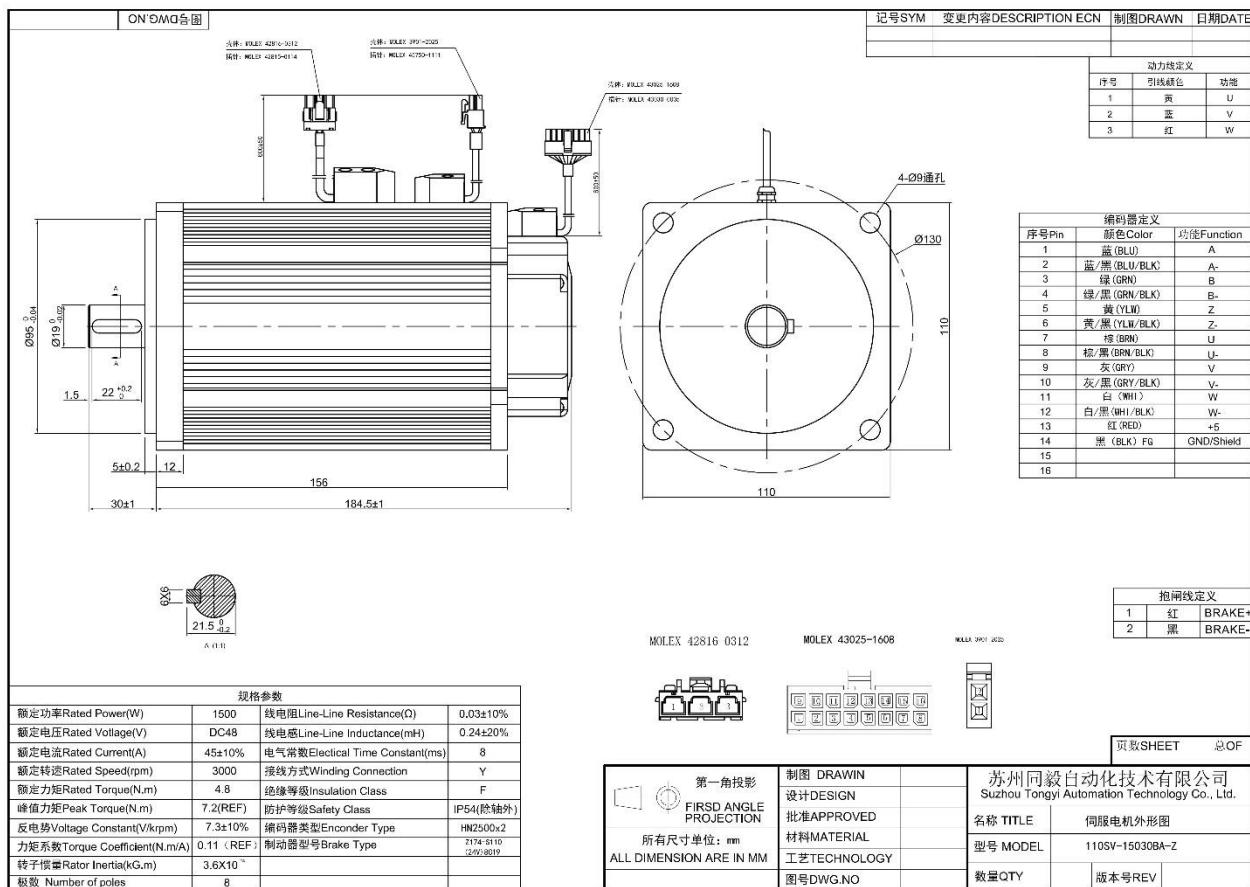
110-1000W Series (Parts)

110SV-10030BA

SV Series Low&High Voltage Servo Motor Selection Guide

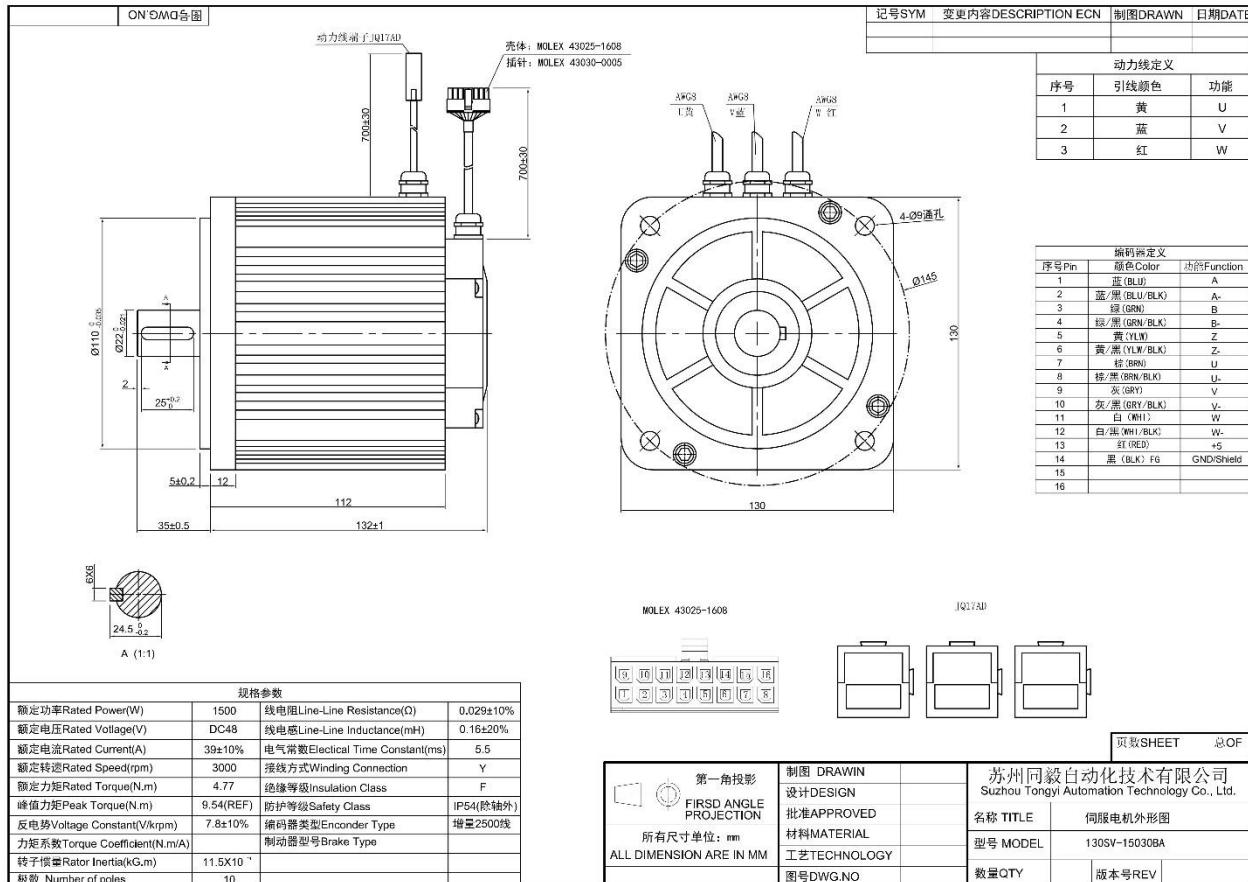


110SV-15030BA-Z



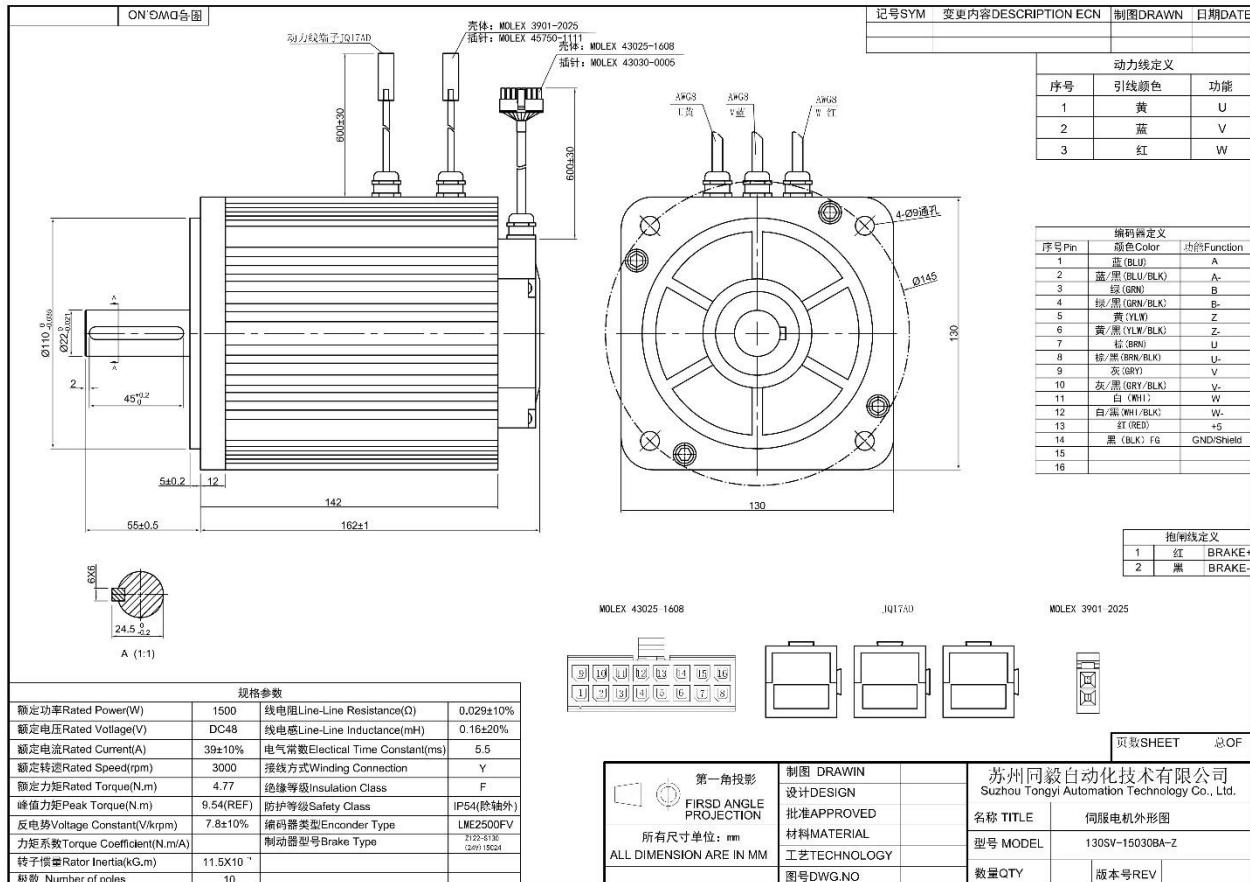
130-1500W Series (Parts)

130SV-15030BA



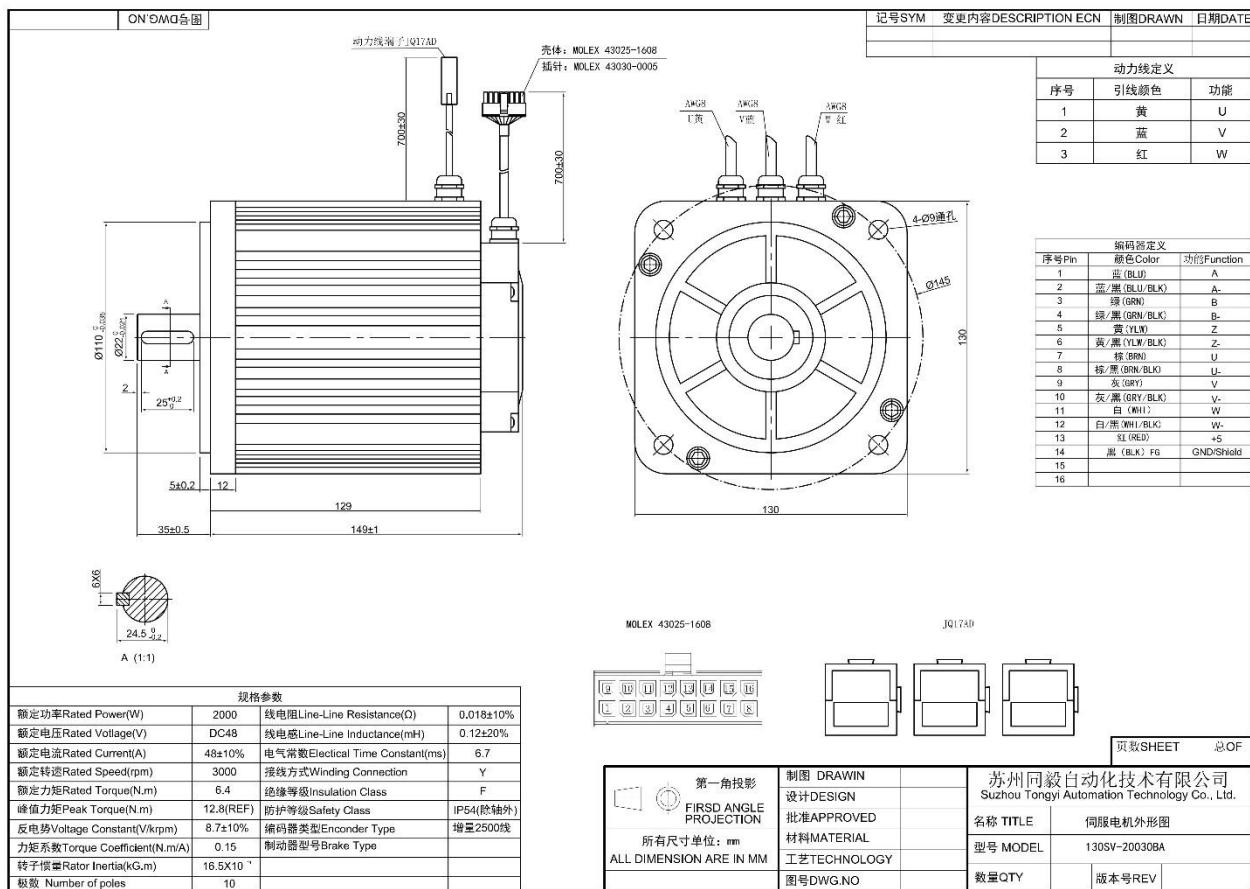
130SV-15030BA-Z

SV Series Low&High Voltage Servo Motor Selection Guide

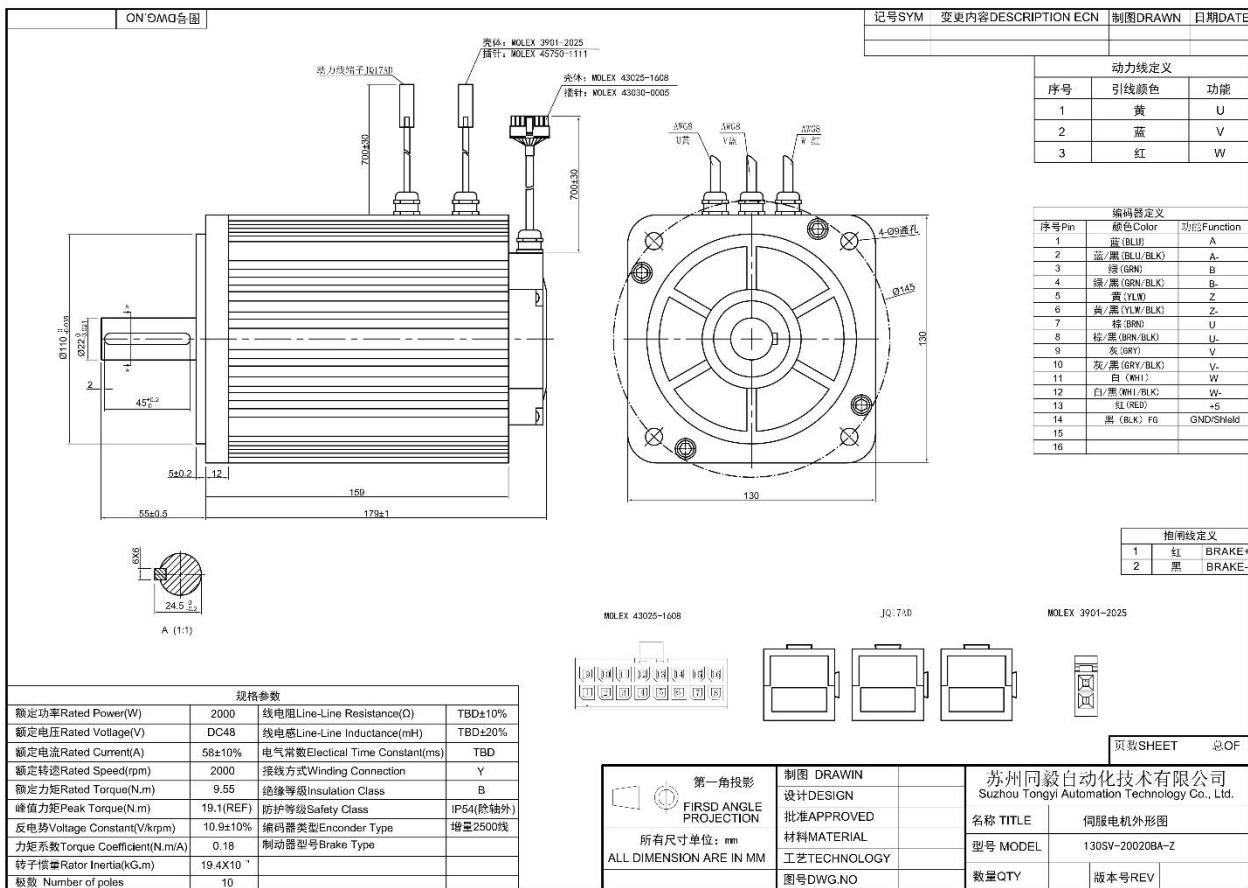


130-2000W Series (Parts)

130SV-20030BA



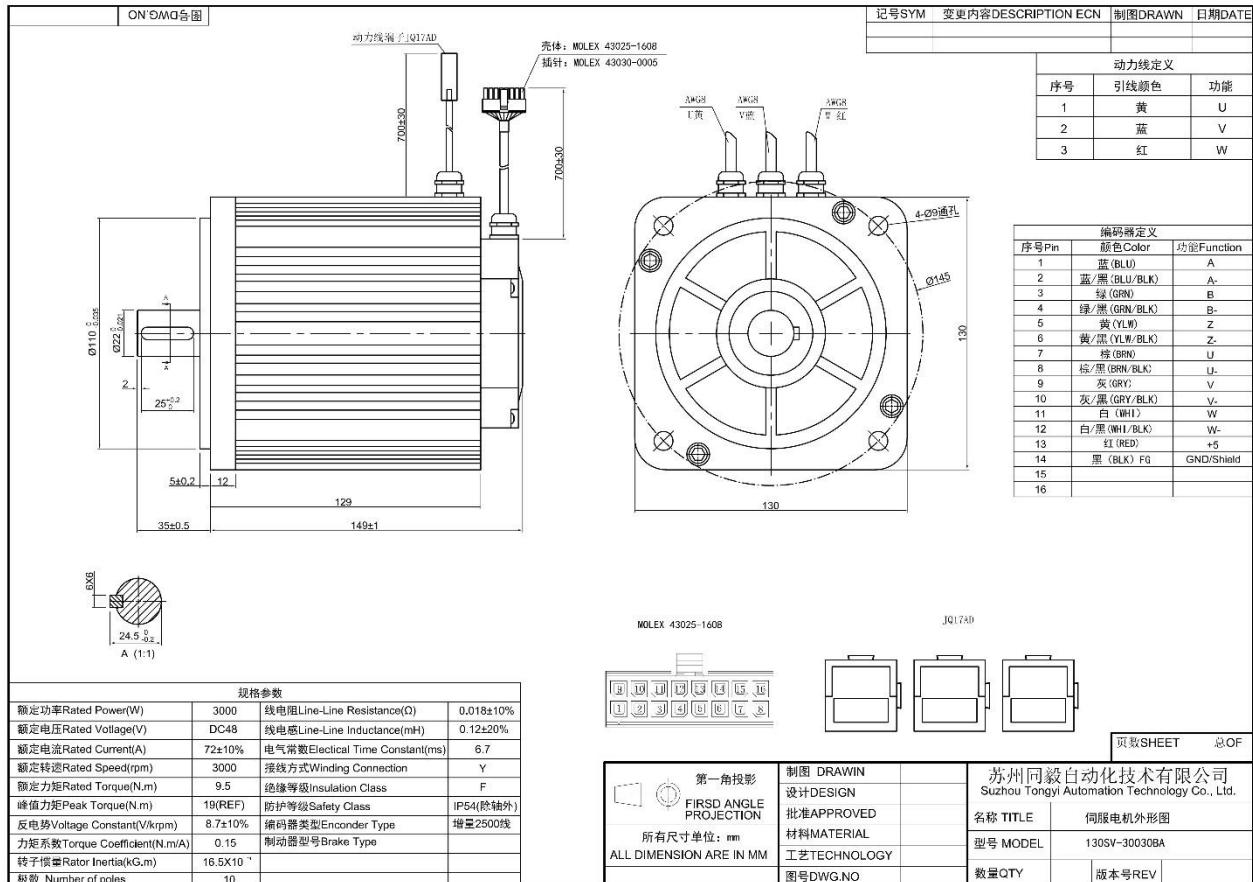
130SV-20020BA-Z



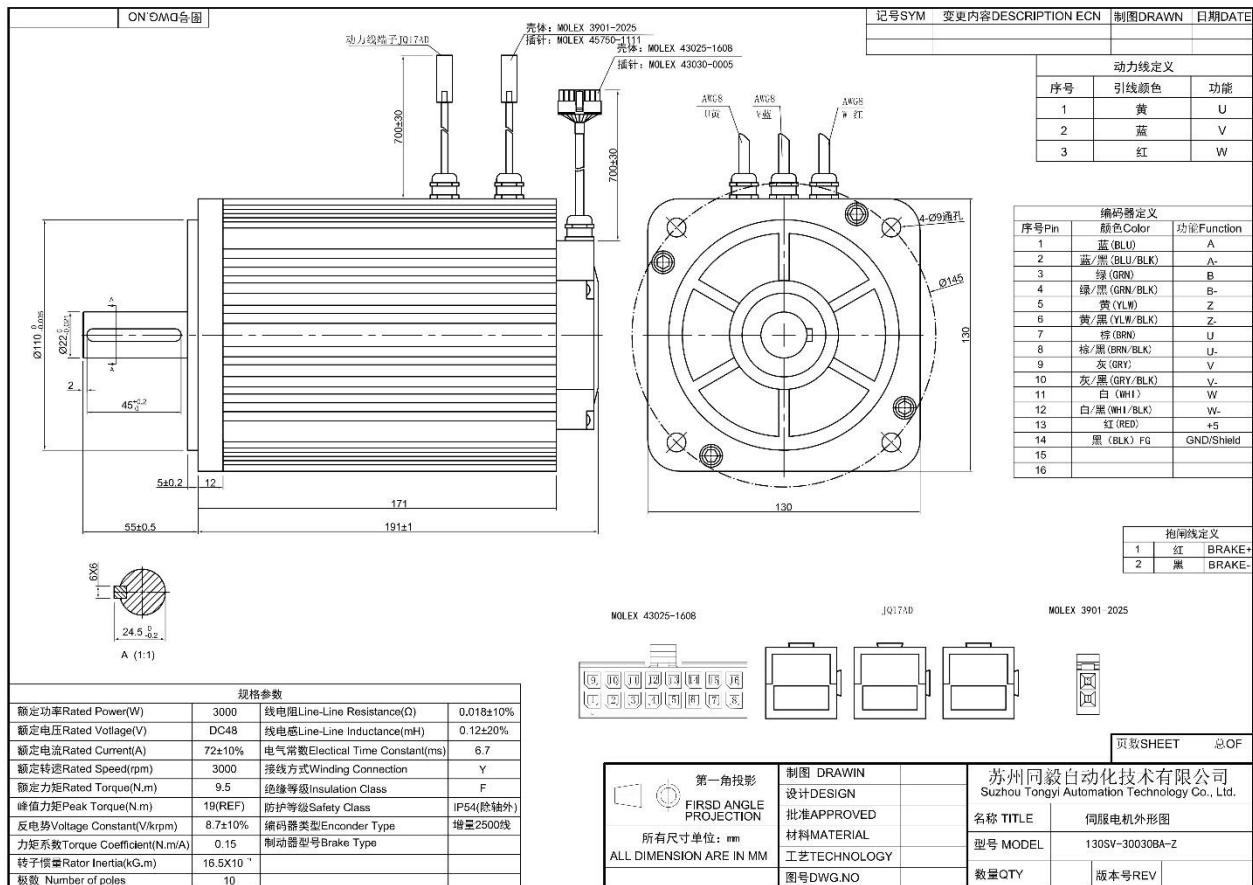
130-3000W Series (Parts)

130SV-30030BA

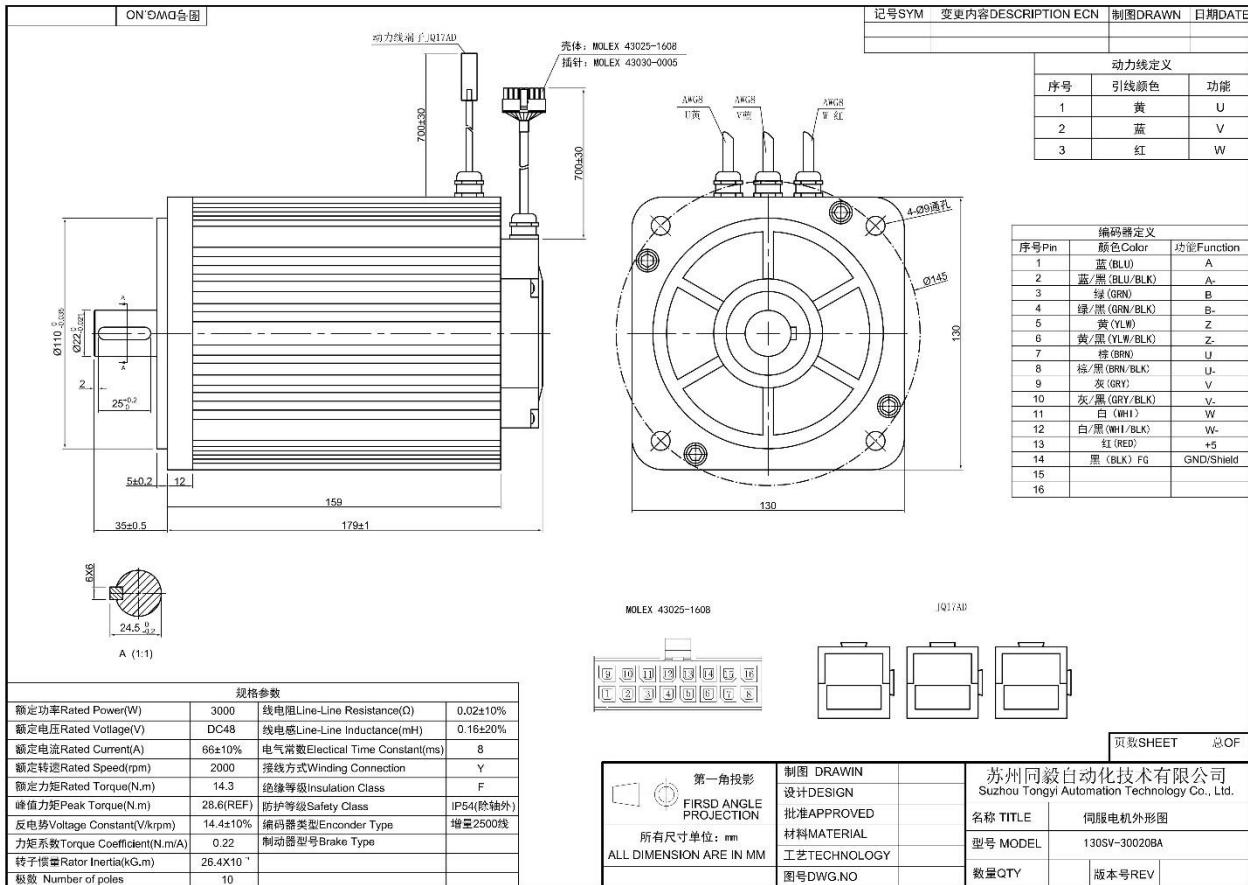
SV Series Low&High Voltage Servo Motor Selection Guide



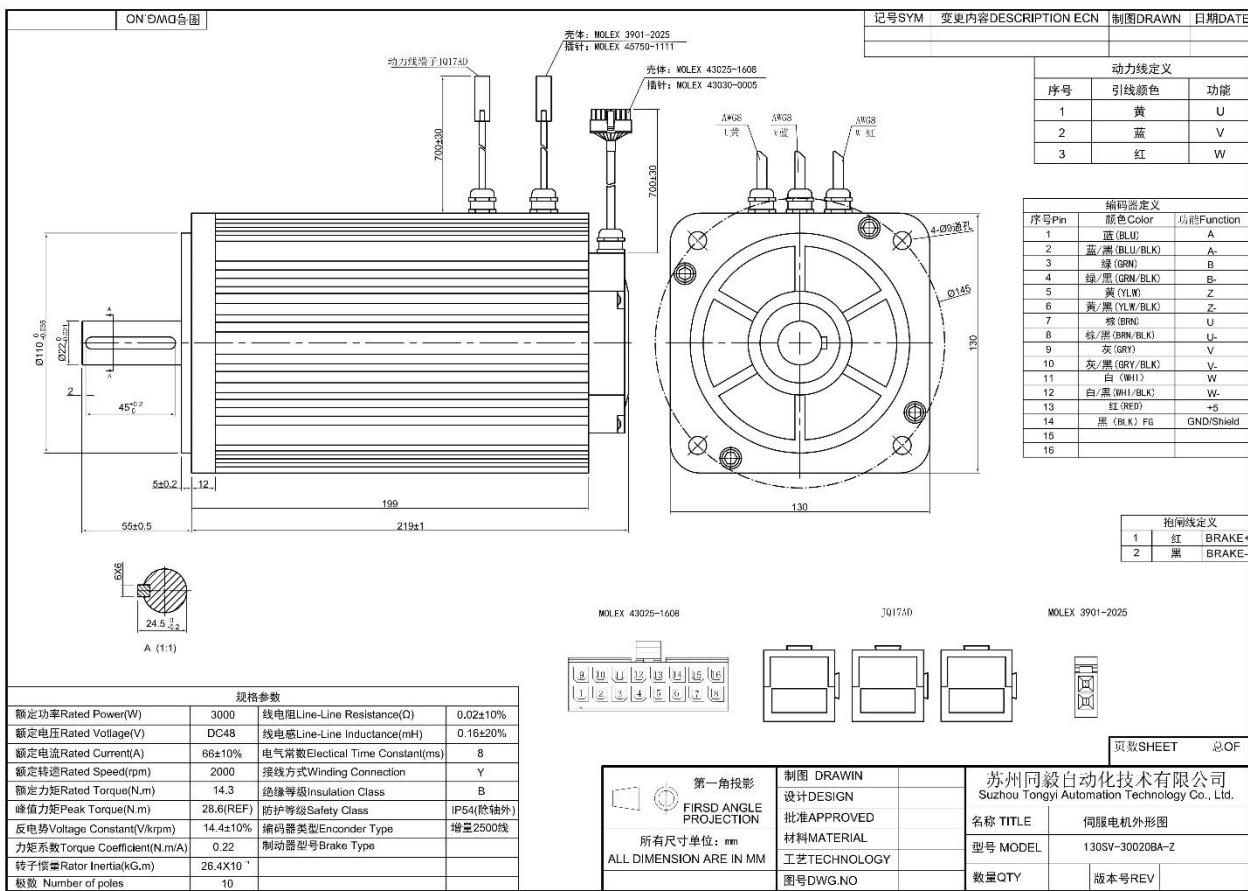
130SV-30030BA-Z



130SV-30020BA

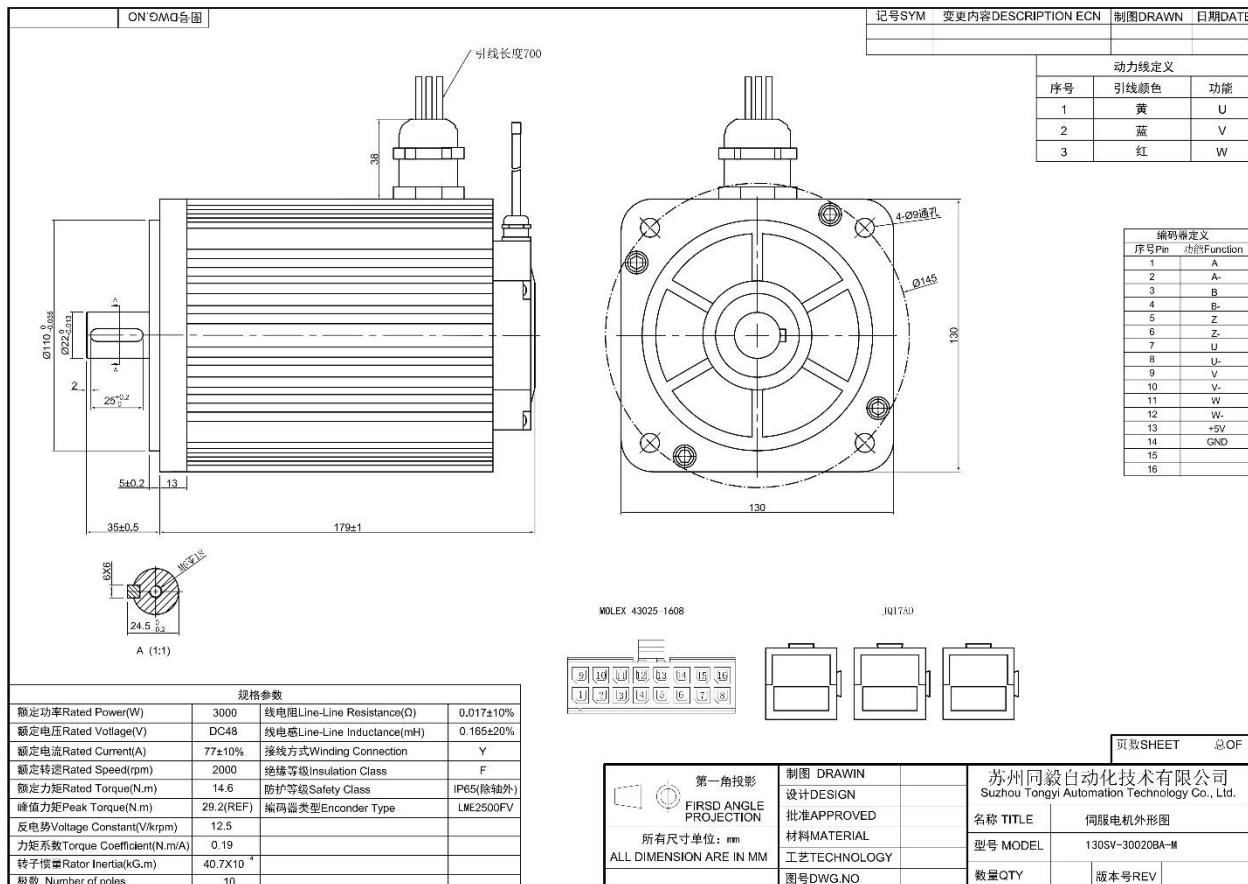


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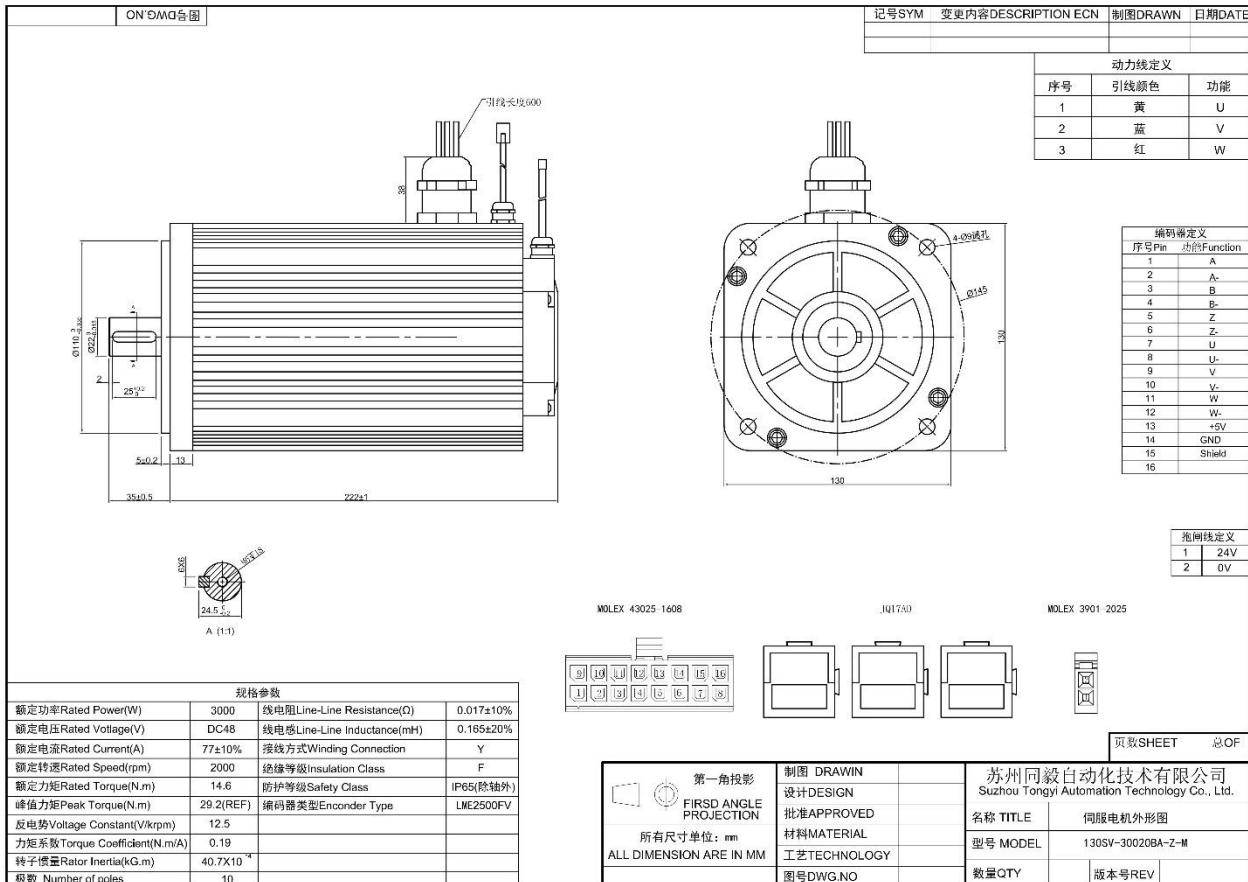
180-3000W Series (Parts)

180SV-300150BE



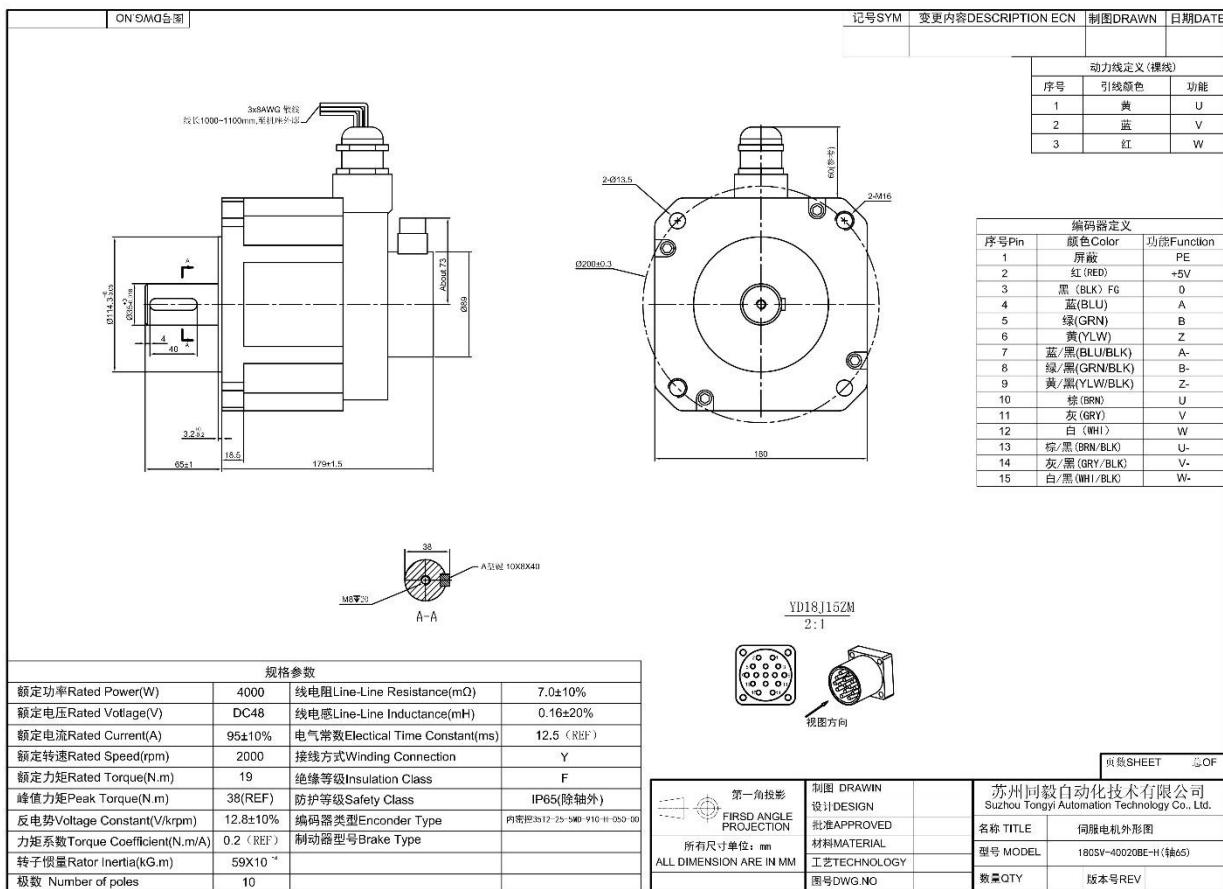
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SV Series Low&High Voltage Servo Motor Selection Guide

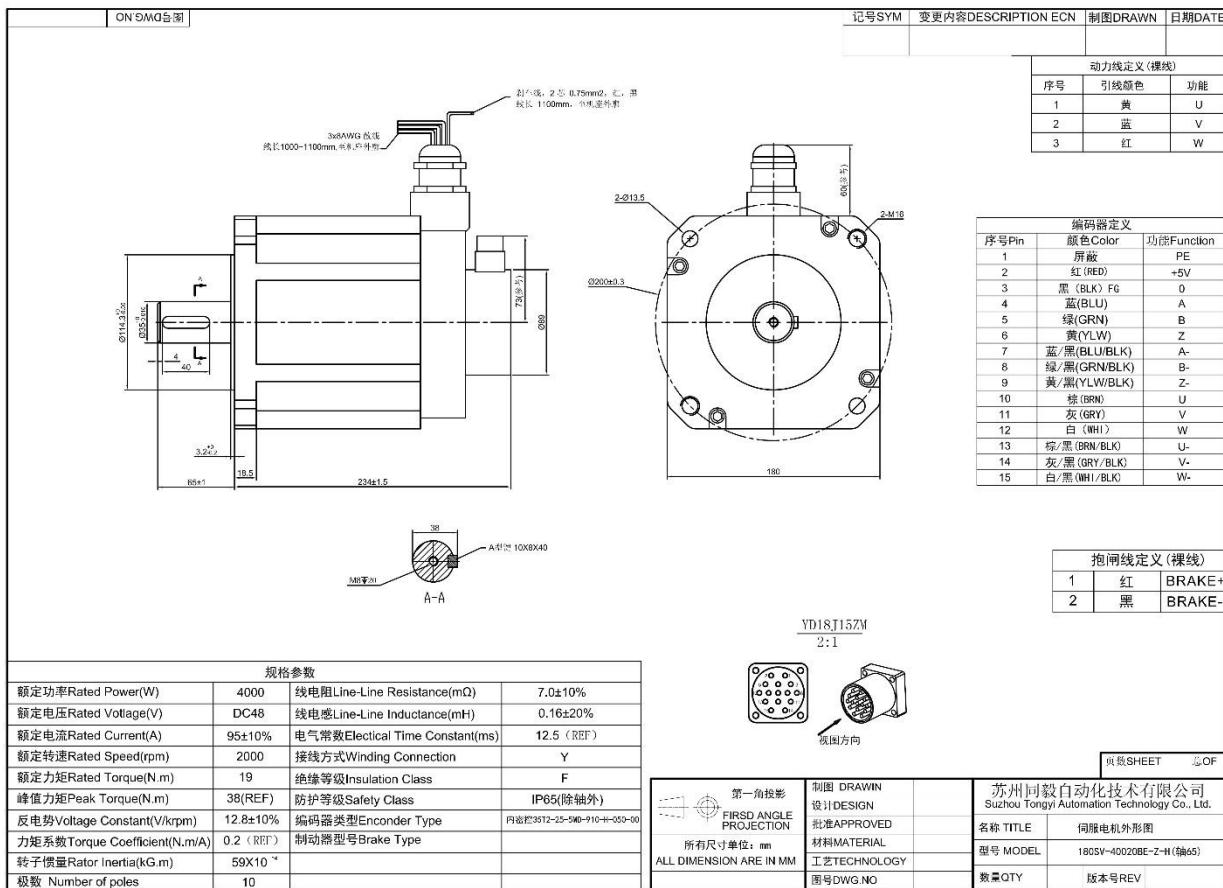


180-4000W Series (Parts)

180SV-40020BE



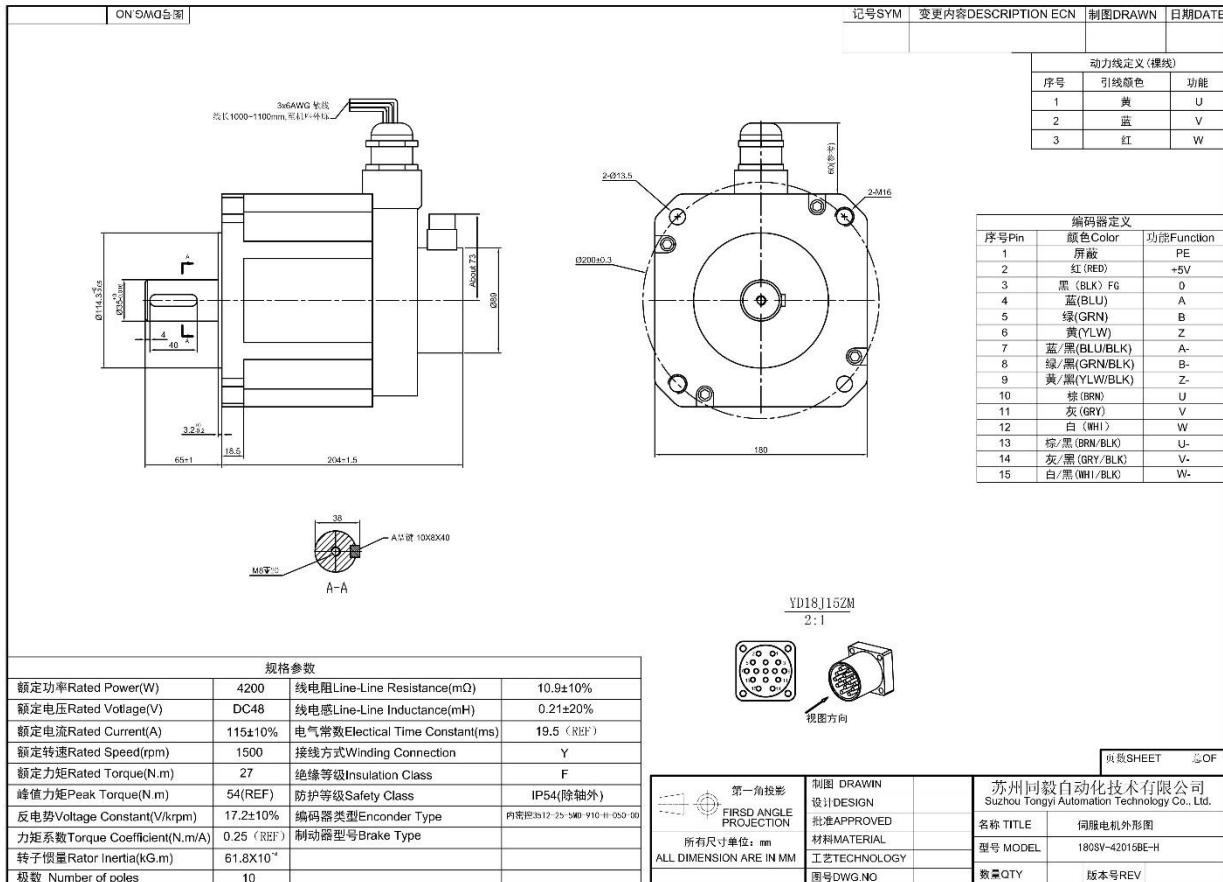
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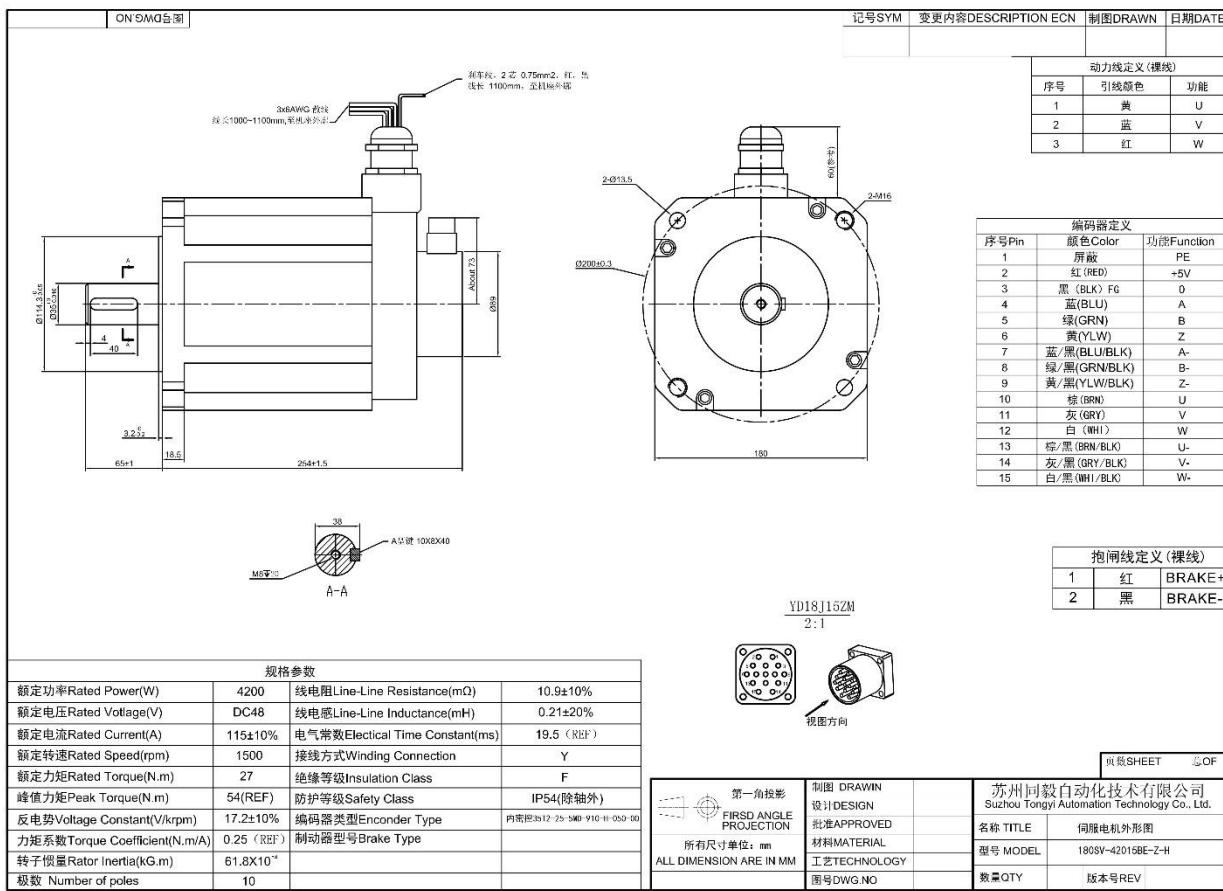
180-4200W Series (Parts)

180-42015BE

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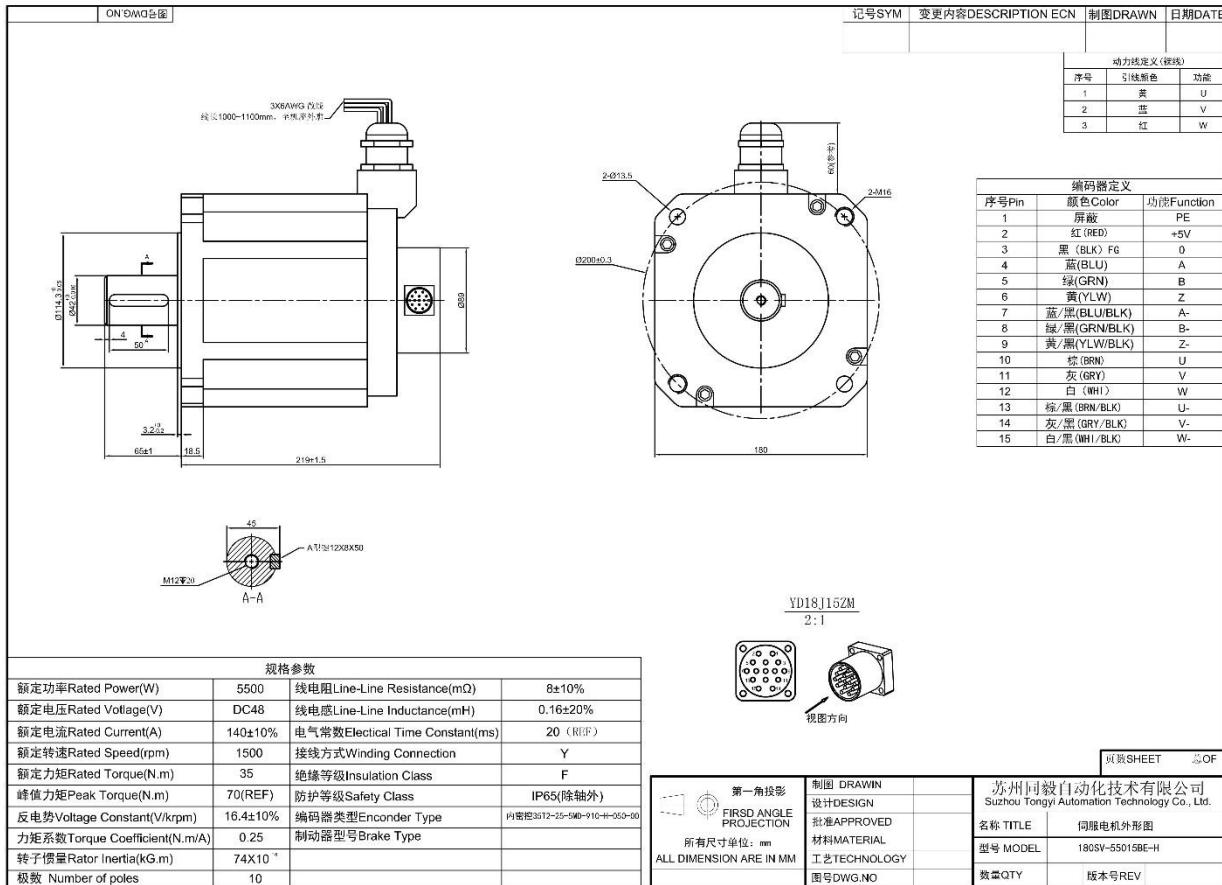


180-42015BE-Z



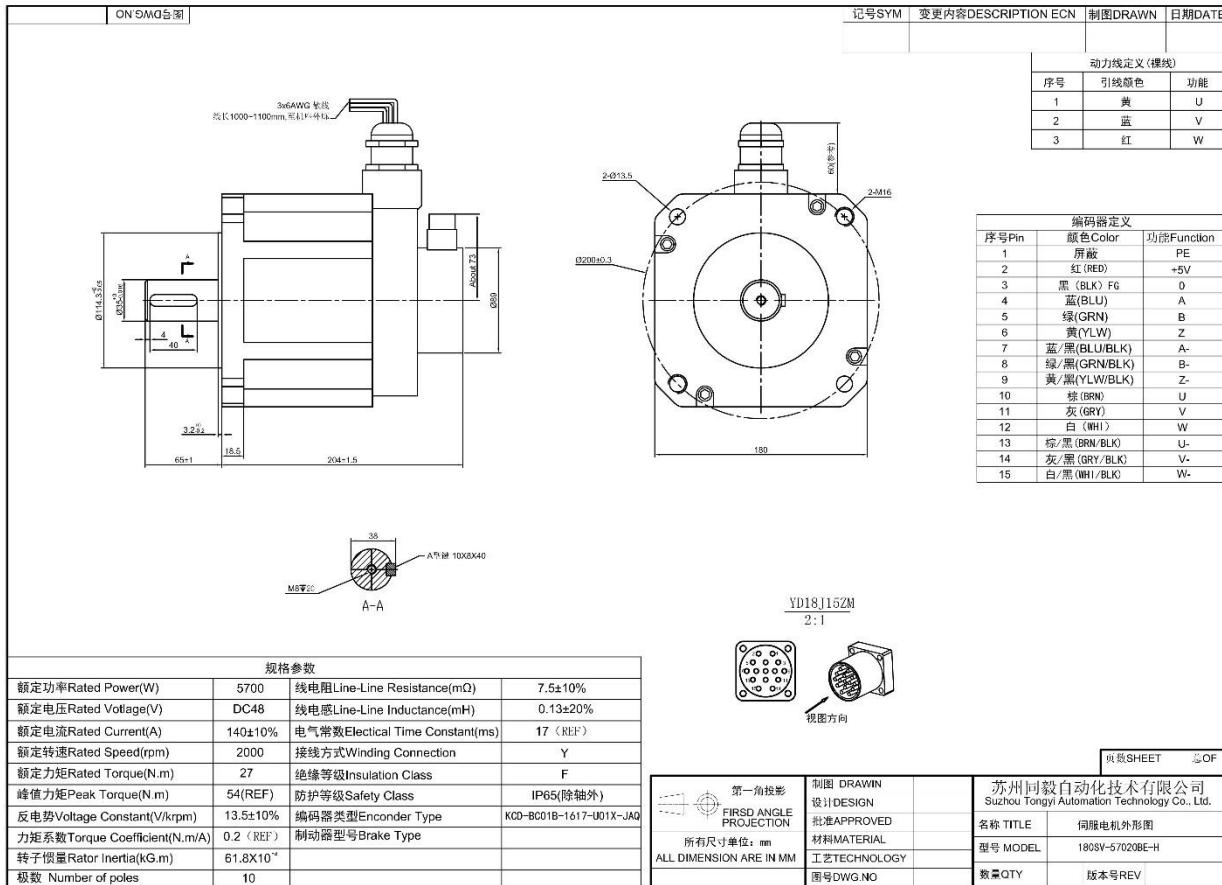
180-5500W Series (Parts)

180SV-55015BE



180-5700W Series (Parts)

180SV-57020BE



180SV-57020BE-Z

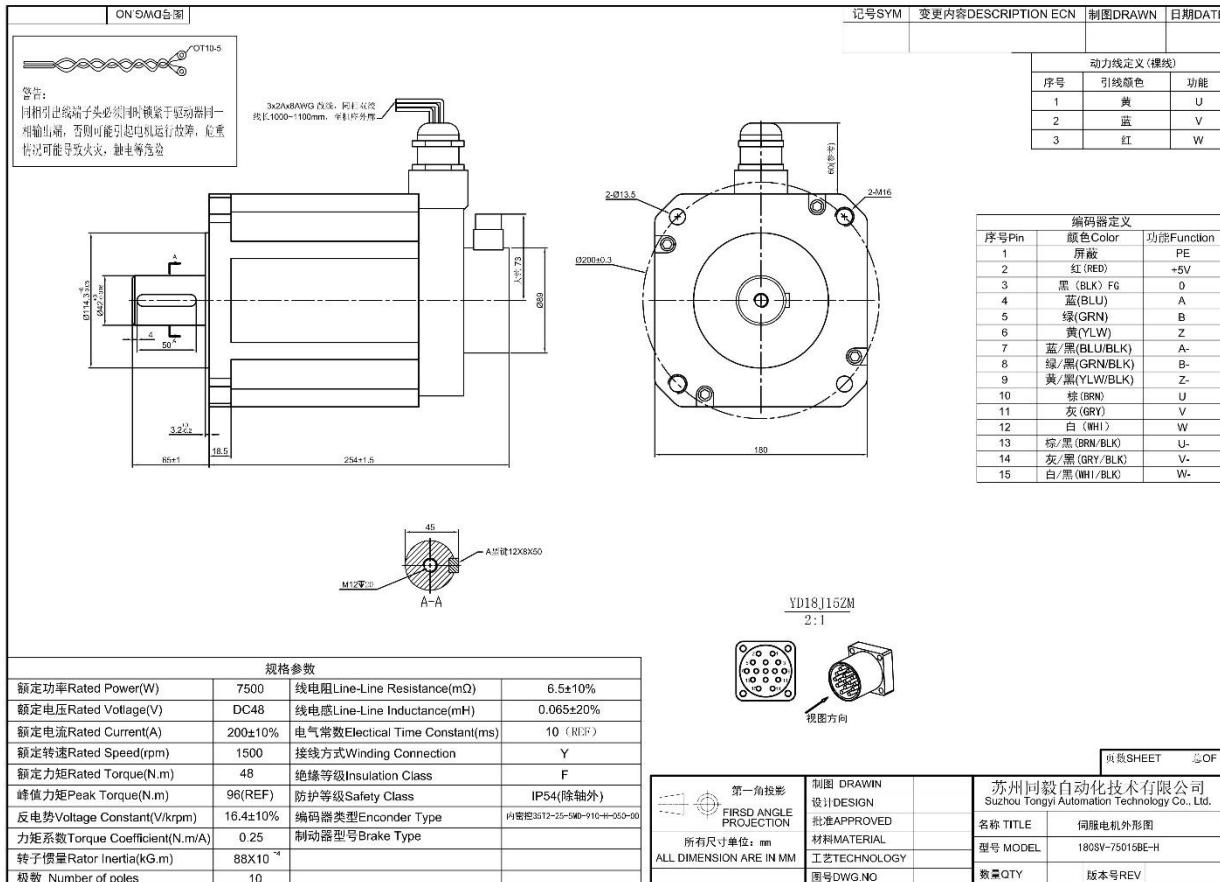
SV Series Low&High Voltage Servo Motor Selection Guide

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动力线定义(裸线)																																																
序号	引线颜色	功能																																														
1	黄	U																																														
2	蓝	V																																														
3	红	W																																														
编码器定义																																																
序号Pin	颜色Color	功能Function																																														
1	屏蔽	PE																																														
2	红(RED)	+5V																																														
3	黑(BLK) F6	0																																														
4	蓝(BLU)	A																																														
5	绿(GRN)	B																																														
6	黄(YLW)	Z																																														
7	蓝/黑(BLU/BLK)	A-																																														
8	绿/黑(GRN/BLK)	B-																																														
9	黄/黑(YLW/BLK)	Z-																																														
10	棕(BRN)	U																																														
11	灰(GRY)	V																																														
12	白(WHI)	W																																														
13	棕/黑(BRN/BLK)	U-																																														
14	灰/黑(GRY/BLK)	V-																																														
15	白/黑(WHI/BLK)	W-																																														
抱闸线定义(裸线)																																																
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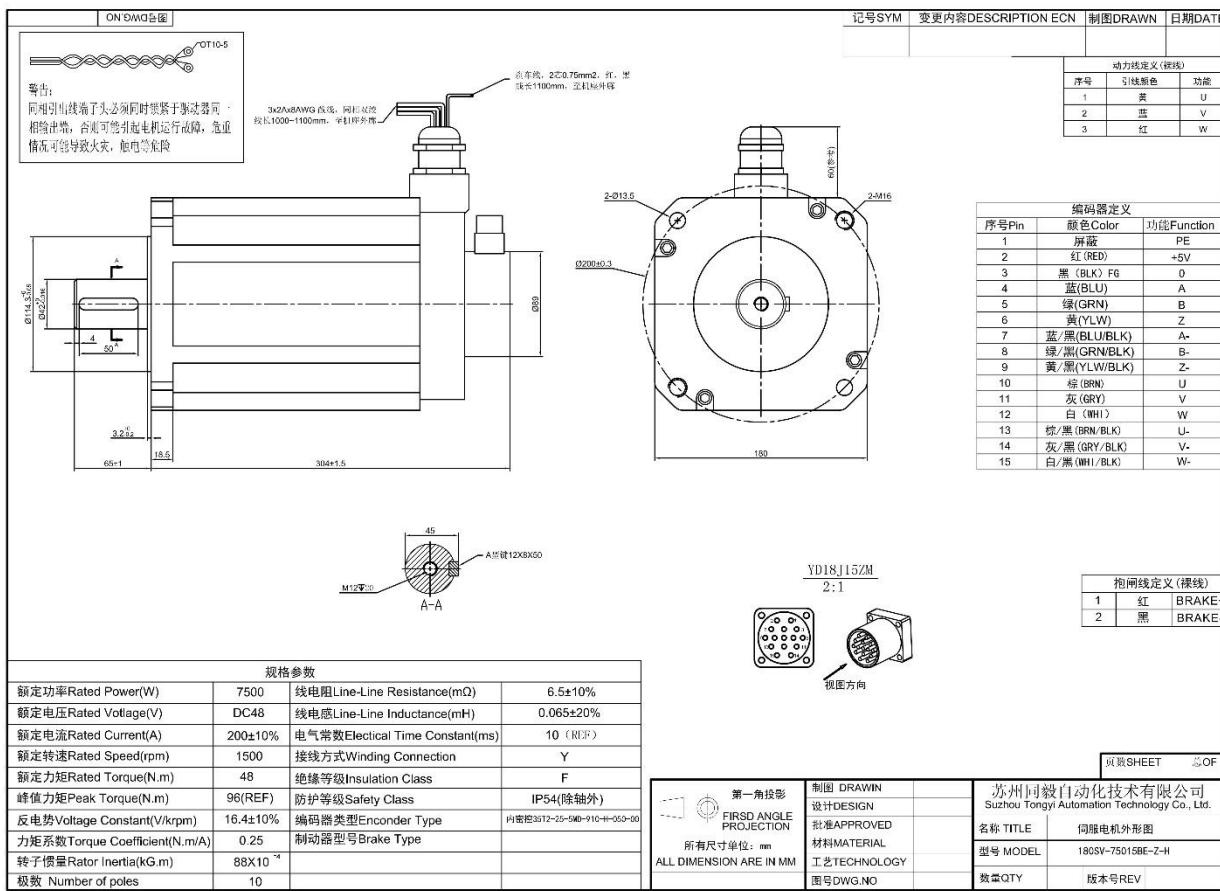
180-7500W Series (Parts)

180SV-75015CE

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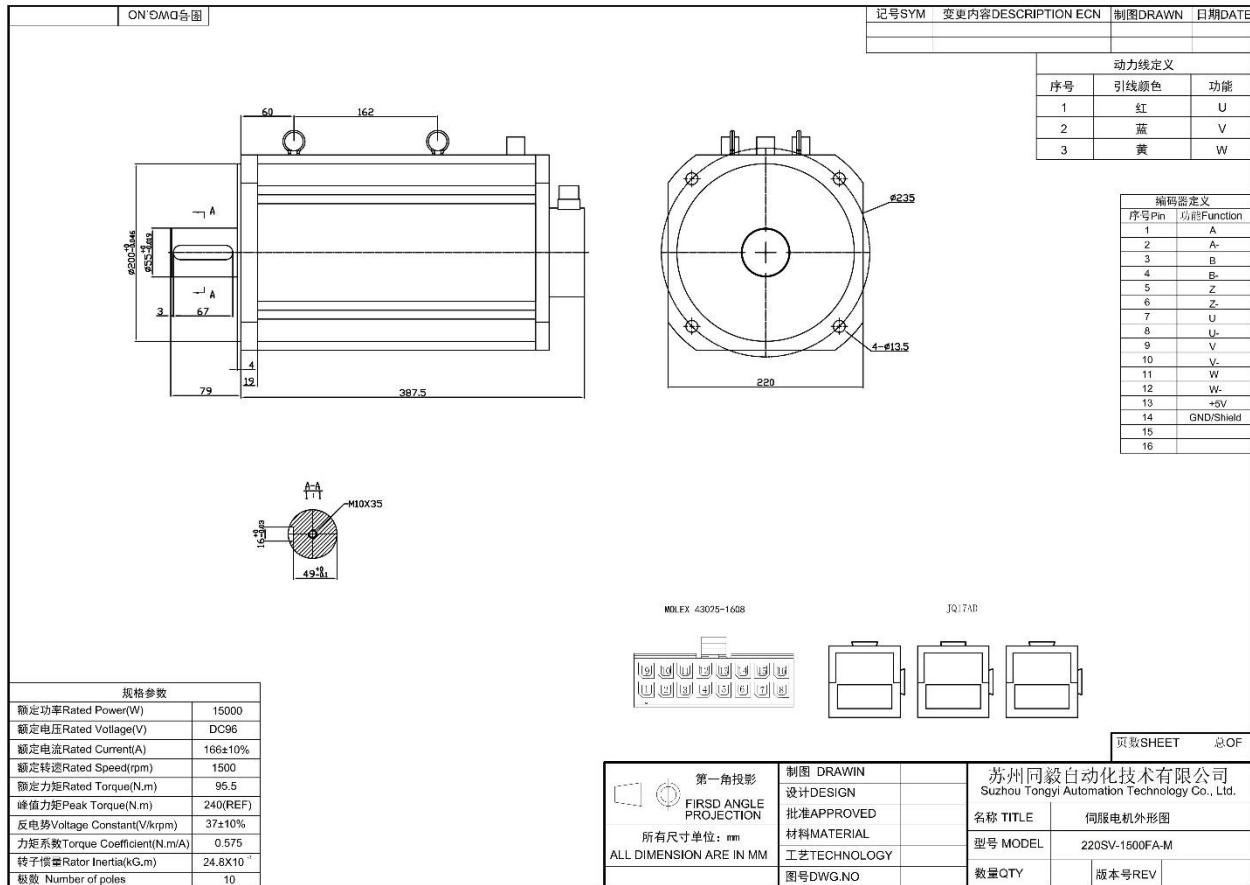


180SV-75015CE-Z



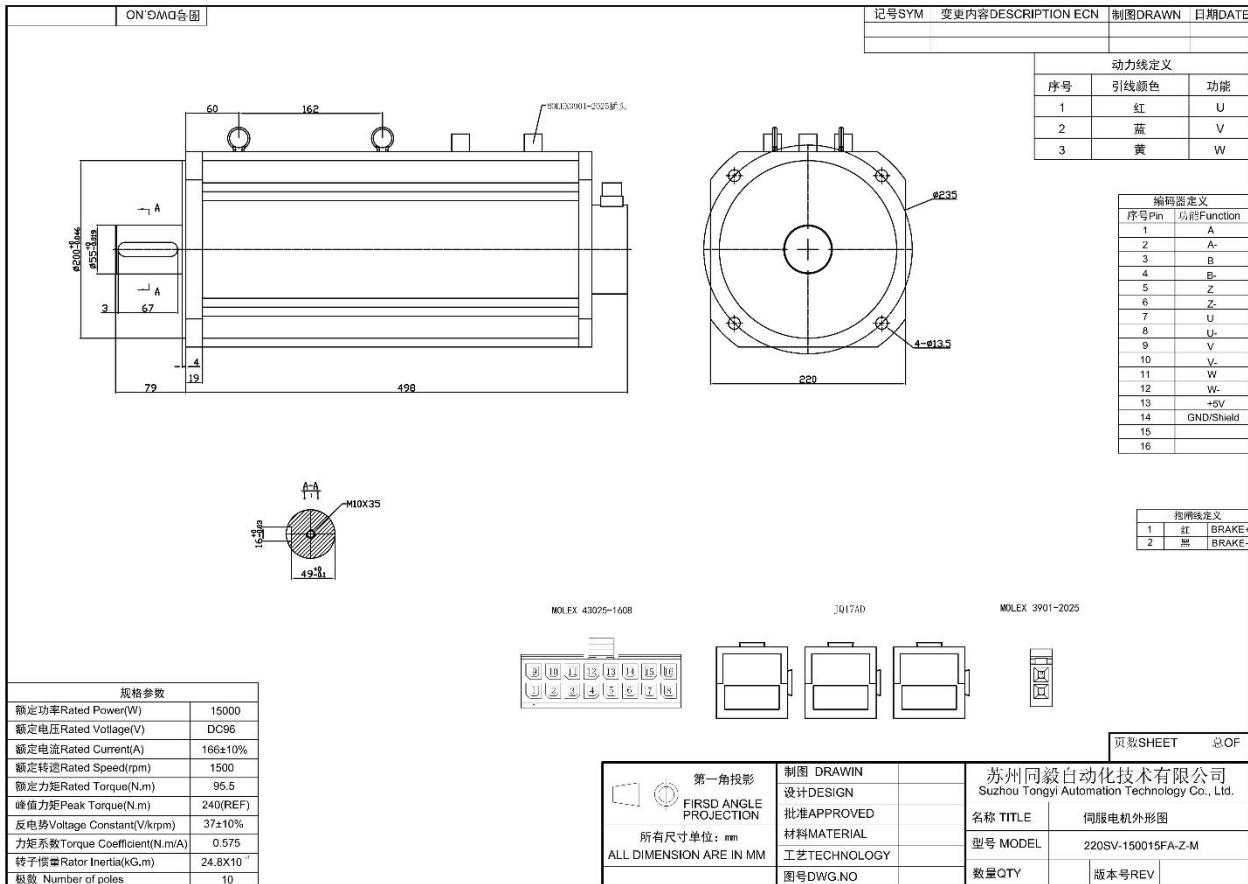
220-15KW Series (Parts)

220SV-150015FA



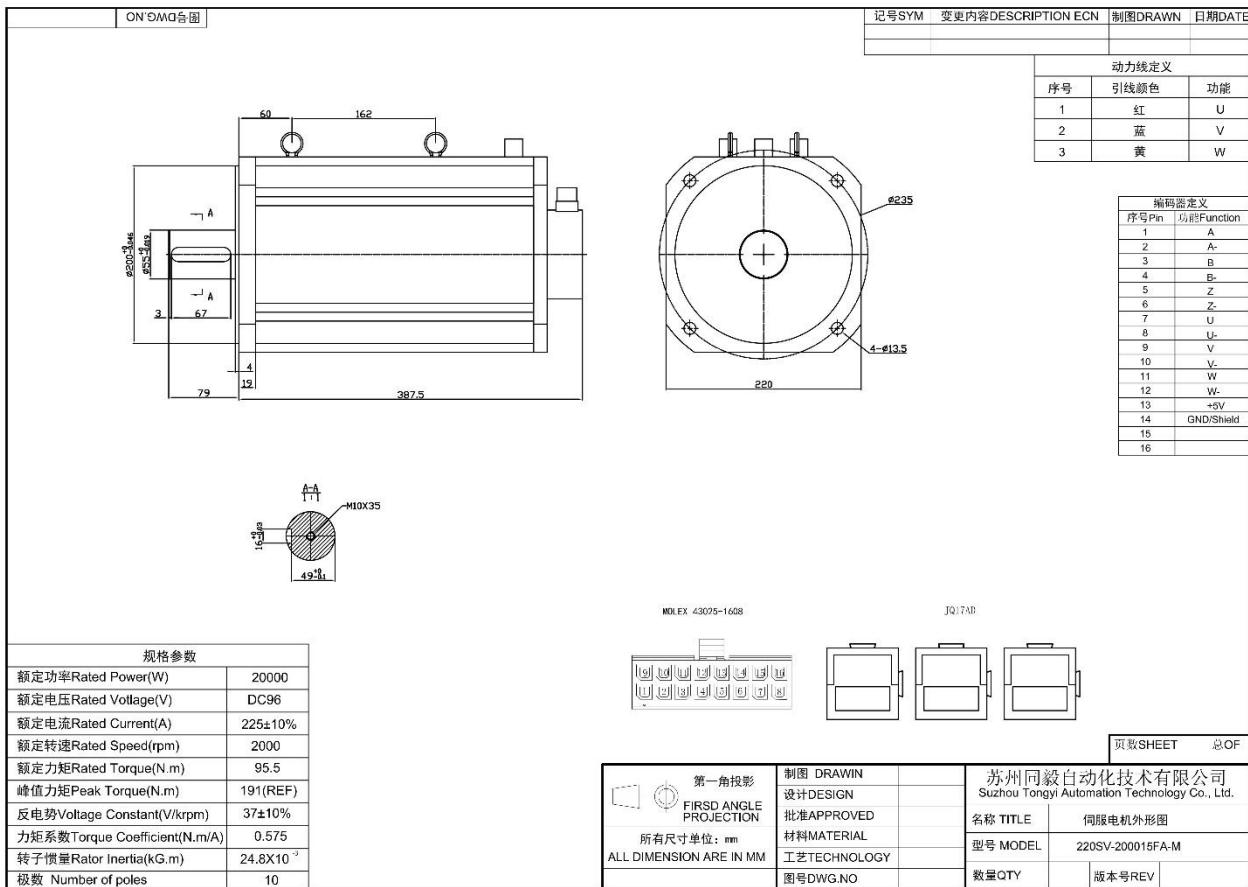
220SV-150015FA-Z

SV Series Low&High Voltage Servo Motor Selection Guide



220-20KW Series (Parts)

220SV-200015FA



220SV-200015FA-Z

