Business in 18 countries around the world



0572-8035565
www.tonghangedrive.com
WWW.hzth-edrive.com
Building 3, No. 398 Hanghai Road, Yuyue Town,Deqing County,
Huzhou City, Zhejiang Province

Scan to learn more

通航电驱
TONGHANG E-DRIVE

TONGHANG E-DRIVE

Industrial fast door servo control system Selection Manual



Zhejiang Tonghang E-Drive Technology Co., Ltd.

匠心品质 · 智造未来

TONGHANG

匠心品质 | 智造未来

A High-Performance Industrial Automation System Provider

高性能的工业自动化系统服务商

A High-Performance Industrial Automation System Provider

TONGHANG

公司简介
ompany information

Zhejiang Tonghang E-Drive Technology Co., Ltd. is a national high-tech enterprise integrating R&D, production, sales and service. The company has a highly qualified and experienced R&D team, including many doctors and masters, and has obtained a number of invention patents and utility model patents.

The company's main products include servo drives, servo motors and industrial fast door servo control systems. The product types are complete, covering low-voltage, medium-voltage and high-voltage series, with a wide power range of 100W to 22kW. The company has successfully developed a servo control system dedicated to soft fast doors, and launched servo drives compatible with multiple bus protocols such as EtherCAT, CANopen, MECHATROLINK II/III, and can also provide customized servo product development services according to customer needs.

The company has a 5,000㎡ modern clean workshop, introduced advanced equipment and independently developed special production equipment, and built multiple automated production lines. Strictly implement the "quality first" concept, products must pass more than 30 testing processes such as raw material inspection, PCBA testing, high temperature aging testing, etc. to ensure that the products shipped meet industry standards.

In terms of delivery, the company has a 2,500㎡ finished product warehouse to ensure sufficient supply and stable delivery, helping customers achieve on-time delivery. At the same time, offices and after-sales service centers have been set up in many provinces and cities across the country to quickly respond to customer needs. In terms of overseas markets, products are exported to many countries and regions such as Germany, Russia, and India, providing high-quality products and services to global customers.



TONGHANG



企业使命
Corporate mission

责任担当

Responsibility

成为一个对社会有担当的企业，成为客户最好的合作伙伴

成为员工优质生活保障的平台

Become a responsible enterprise for the society and the best partner for customers Become a platform for employees to ensure their quality of life



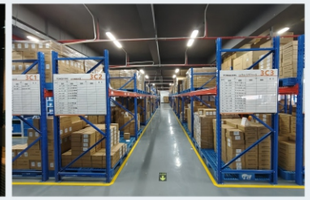












企业愿景
Corporate vision

精益求精

Refine on

打造客户信任的国产品牌，
助力国家工业4.0

Long term development, sustainable operation, and dedication to the community.

管理理念
Management philosophy

真诚服务

Sincere service

建客户满意优质工程，

创美好和谐社会环境。

Build a high quality project with customer satisfaction, Create a beautiful and harmonious social environment.

经营理念
Management philosophy

成就品牌

Sincere service

诚信经营、铸造精品、

奉献社会、惠及员工。

Good faith management, casting fine products Contribute to the society and benefit the employees.

用人准则：
Employment criteria

孝忠情智

Filial piety and loyalty
Emotional intelligence

以孝为用人之根 以忠为用人之本

以情为用人之筋 以智为用人之骨

Taking filial piety as the root and loyalty as the foundation Take emotion as the muscle and wisdom as the bone

企业价值观：
Corporate values

诚信 担当 民主 共享 协作 创新

Honesty, responsibility, democracy, sharing, cooperation and innovation

以诚信立足天下 以担当为己责任，以民主建设团队 以共享驱动利益

以协作克服艰险 以创新开拓未来

Base on the world with honesty and take responsibility for oneself
Building a team with democracy and driving interests with sharing
Overcome difficulties and dangers through cooperation and open up the future through innovation









品牌理念
Brand concept

让客户有信心选择国产化品牌
让客户用变频器的成本，享受交流主轴伺服的性能
让客户愉快享受工业快速门伺服控制系统的使用过程
让客户冲刺工业4.0的路上有我们的助力
Let customers have confidence to choose domestic brands
Let customers use the cost of inverter, enjoy the performance of AC spindle servo
Let customers enjoy the use process of the industrial rapid door servo control system happily.
Let customers sprint industry 4.0 with our help

企业宗旨
Enterprise tenet

匠心品质 智造未来，心无旁骛 精益求精
Ingenuity, quality, intelligence, focus on Perfection



荣誉证书
Corporate Culture

公司技术力量雄厚，拥有伺服工程师及专业驱动器技术人员，已形成一支具有较强专业技术的优秀人才队伍，生产条件优越，工艺技术先进，生产、检测设备齐全，拥有严格的质量管理体系和先进的检测手段，保证产品质量。
The company has strong technical force, servo engineers and professional drive technicians, has formed a strong professional and technical talent team, superior production conditions, advanced technology The company has complete production and testing equipment, strict quality management system and advanced testing means to ensure product quality.



TONGHANG

Z5MJ-040 Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors

Z5MJ-040 Series Standard Specifications and Dimensions 01
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 01
Technical Specifications of the Z5MJ-040 Series 02

Z5MJ-075 Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors

Z5MJ-075 Series Standard Specifications and Dimensions 03
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 03
Technical Specifications of the Z5MJ-075 Series 04

Z5MJ-100 Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors

Z5MJ-100 Series Standard Specifications and Dimensions 05
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 05
Technical Specifications of the Z5MJ-100 Series 06

Z5MJ-150 (5-Pole Pair) Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors

Z5MJ-150 (5-Pole Pair) Series Standard Specifications and Dimensions 07
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 07
Technical Specifications of the Z5MJ-150 (5-Pole Pair) Series 08

Z5MJ-220 (5-Pole Pair) Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors

Z5MJ-220 (5-Pole Pair) Series Standard Specifications and Dimensions 09
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 09
Technical Specifications of the Z5MJ-220 (5-Pole Pair) Series 10

Z5MJ-075 (4-Pole Pair) Series Fast Door Dedicated Servo for Soft/Hard Industrial High-Speed Doors

Z5MJ-075 (4-Pole Pair) Series Standard Specifications and Dimensions 11
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 11
Technical Specifications of the Z5MJ-075 (4-Pole Pair) Series 12

Z5MJ-100 (4-Pole Pair) Series Fast Door Dedicated Servo for Soft/Hard Industrial High-Speed Doors

Z5MJ-100 (4-Pole Pair) Series Standard Specifications and Dimensions 13
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 13
Technical Specifications of the Z5MJ-100 (4-Pole Pair) Series 14

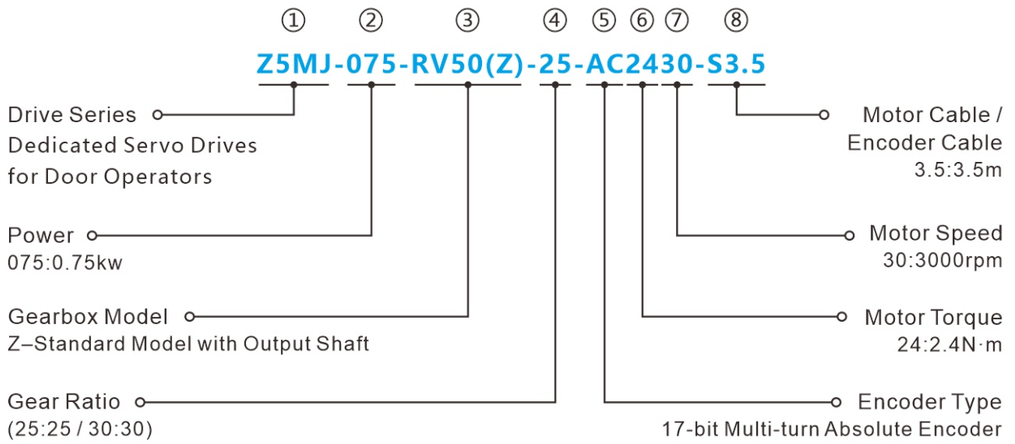
Z5MJ-150 (4-Pole Pair) Series Fast Door Dedicated Servo for Soft/Hard Industrial High-Speed Doors

Z5MJ-150 (4-Pole Pair) Series Standard Specifications and Dimensions 15
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 15
Technical Specifications of the Z5MJ-150 (4-Pole Pair) Series 16

Z5MJ-220 (4-Pole Pair) Series Fast Door Dedicated Servo for Soft/Hard Industrial High-Speed Doors

Z5MJ-220 (4-Pole Pair) Series Standard Specifications and Dimensions 17
Installation Dimensions and Wiring Diagram of the Fast Door Dedicated Servo 17
Technical Specifications of the Z5MJ-220 (4-Pole Pair) Series 18

Fast Door Dedicated Servo Model Naming Convention



Fast Door Dedicated Servo Configuration Table for Industrial Rapid Doors

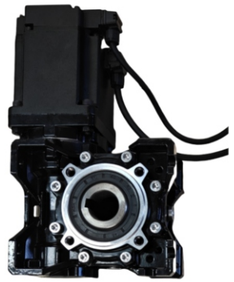
Model	Power output (KW)	Hard-Type Rapid Door	Soft High-Speed Door	Motor Rated Maximum Speed(Rpm)	Motor Rated Torque (N·m)
Z5MJ-040	400W		√	3000rpm	1.3N·m (3.0x Overload Capacity)
Z5MJ-075	750W		√	3000rpm	2.4N·m (3.0x Overload Capacity)
Z5MJ-075 (4 pole pairs)	750W	√	√	3000rpm	2.4N·m (3.0x Overload Capacity)
Z5MJ-100	1.0kW		√	2500rpm	4N·m (2.5x Overload Capacity)
Z5MJ-100 (4 pole pairs)	1.0kW	√	√	2500rpm	4N·m (2.5x Overload Capacity)
Z5MJ-150 (4 pole pairs)	1.5kW	√	√	2500rpm	6.0N·m (2.5x Overload Capacity)
Z5MJ-150 (5 pole pairs)	1.5kW		√	3000rpm	5.4N·m (1.7x Overload Capacity)
Z5MJ-220 (4 pole pairs)	2.2kW	√	√	1500rpm	15N·m (1.5x Overload Capacity)
Z5MJ-220 (5 pole pairs)	2.2kW		√	1500rpm	14.6N·m (1.5x Overload Capacity)

Z5MJ-040 Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors



Control Box

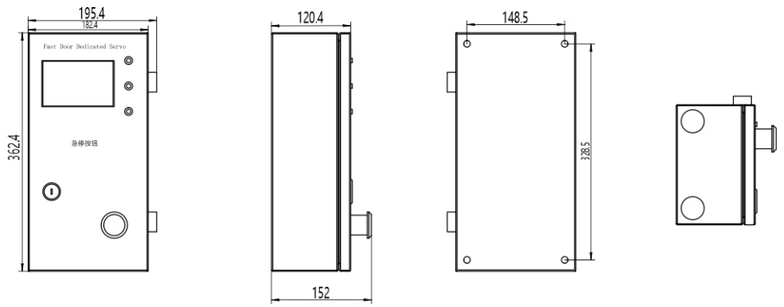
Configuration model: Z5MJ-040
Configuration power: 0.4kW
Display Screen: Touch screen
(Chinese and English)
(Customizable language
interfaces available)



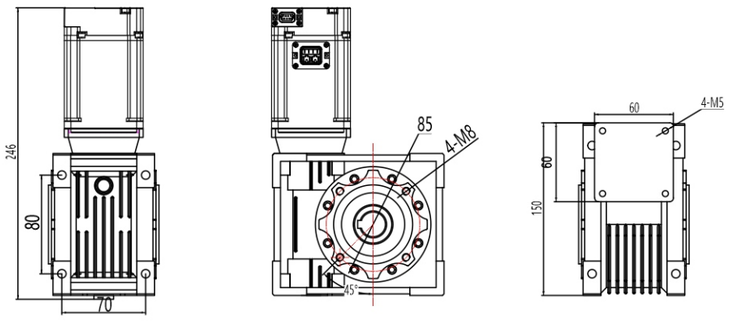
Motor unit

Configuration model:
RV50(Z)-AC1330
Operating Power Supply:
220V±10%

Outline Drawing of Z5MJ-040 Control Box (mm)



Outline Drawing of RV50(Z)-AC1330 Motor unit (mm)



Z5MJ-040 Series Specification/Applicable Guidance

Specifications	Z5MJ-040
Power output (KW)	0.4KW
Input Voltage (V)	220V±10%
Input Frequency (Hz)	50Hz
Motor Rated Current (A)	3.0A
Motor Rated Torque (N·m) (Motor with 5 pole pairs)	1.3N·m (3.0x Overload Capacity)
Motor Rated Maximum Speed(Rpm) (Motor with 5 pole pairs)	3000rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length(m)	3.5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic Brake
Ambient Temperature(℃)	(-20~50) ℃
Control Box Dimensions(mm)	362mm(L)×195mm(W)×120mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	RV50
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting(rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings(ms)	/
Automatic Door Closing Delay Time(s)	0-300 (s)
Partial Door Opening Height(%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching(NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-040

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
400W	1:25	< 8 m²	< 30 kg	< 6 m²	< 25 kg

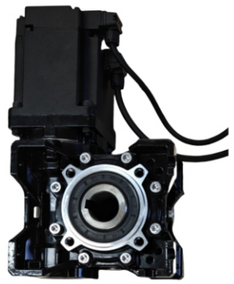


Z5MJ-075 Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors



Control Box

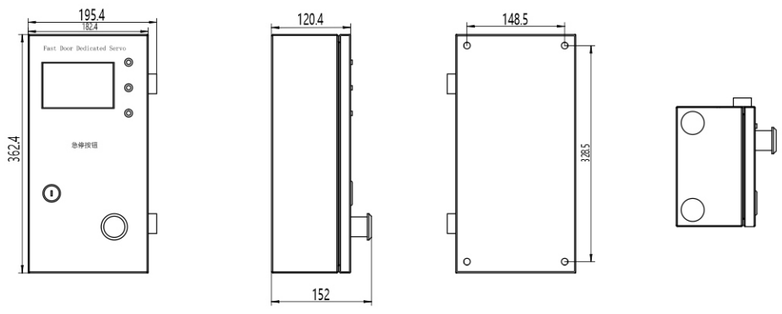
Configuration model: Z5MJ-075
Configuration power: 0.75kW
Display Screen: Touch screen (Chinese and English) (Customizable language interfaces available)



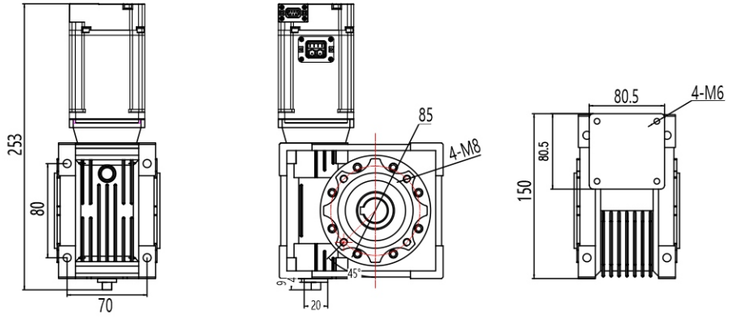
Motor unit

Configuration model: RV50(Z)-AC2430
Operating Power Supply: 220V±10%

Outline Drawing of Z5MJ-075 Control Box（mm）



Outline Drawing of RV50(Z)-AC2430 Motor unit（mm）



Z5MJ-075 Series Specification/Applicable Guidance

Specifications	Z5MJ-075
Power output（KW）	0.75KW
Input Voltage（V）	220V±10%
Input Frequency（Hz）	50Hz
Motor Rated Current（A）	4.0A
Motor Rated Torque(N·m) (Motor with 5 pole pairs)	2.4N·m (3.0x Overload Capacity)
Motor Rated Maximum Speed(Rpm) (Motor with 5 pole pairs)	3000rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	3.5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic Brake
Ambient Temperature（℃）	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)×195mm(W)×120mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	RV50
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300 (s)
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-075

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Rolle	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
750W	1:15	<10m²	<38kg	<8m²	<31kg
	1:20	<13m²	<50kg	<10m²	<41kg
	1:25	<16m²	<63kg	<13m²	<51kg

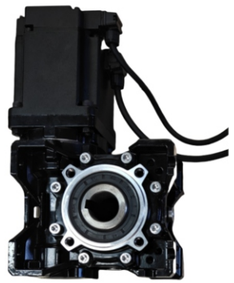


Z5MJ-100 Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors



Control Box

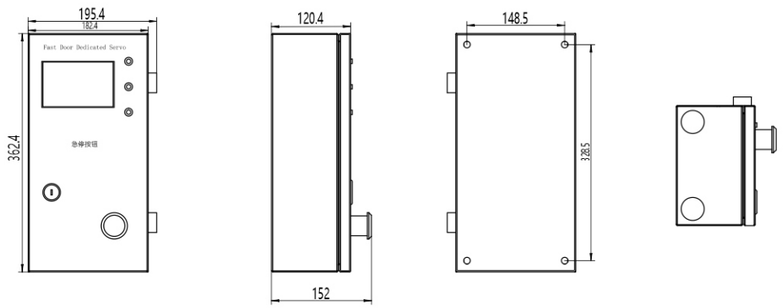
Configuration model: Z5MJ-100
Configuration power: 1kW
Display Screen: Touch screen
(Chinese and English)
(Customizable language interfaces available)



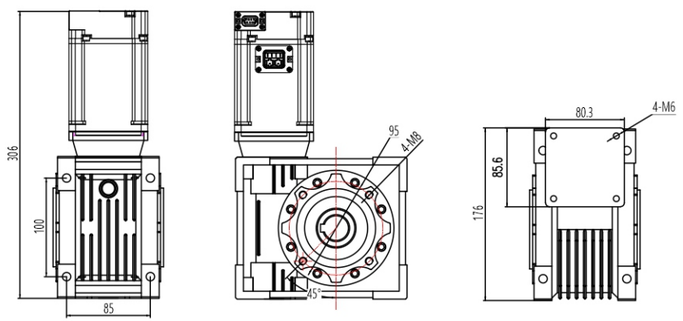
Motor unit

Configuration model:
RV63(Z)-AC4025
Operating Power Supply:
220V±10%

Outline Drawing of Z5MJ-100 Control Box（mm）



Outline Drawing of RV63(Z)-AC4025 Motor unit（mm）



Z5MJ-100 Series Specification/Applicable Guidance

Specifications	Z5MJ-100
Power output（KW）	1kW
Input Voltage（V）	220V±10%
Input Frequency（Hz）	50Hz
Motor Rated Current（A）	4.5A
Motor Rated Torque(N·m) (Motor with 5 pole pairs)	4N·m (2.5x Overload Capacity)
Motor Rated Maximum Speed (Rpm) (Motor with 5 pole pairs)	2500rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	3.5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic Brake
Ambient Temperature（℃）	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)×195mm(W)×120mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	RV50/RV63
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration andDeceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300（s）
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-100

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
1.0kW	1:15	<16m²	<54kg	<13m²	<45kg
	1:20	<20m²	<72kg	<16m²	<60kg
	1:25	<25m²	<90kg	<20m²	<72kg



Z5MJ-150 (5-Pole Pair) Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors



Control Box

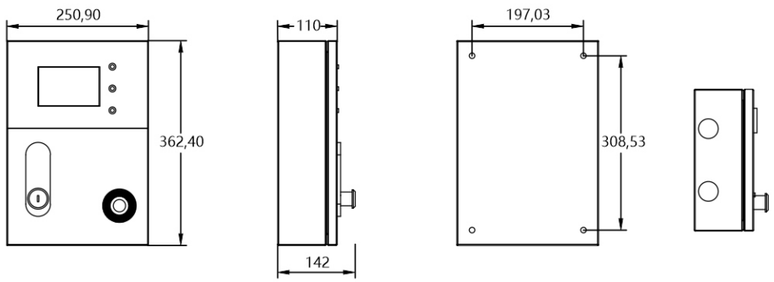
Configuration model: Z5MJ-150
Configuration power: 1.5kW
Display Screen: Touch screen (Chinese and English)
(Customizable language interfaces available)



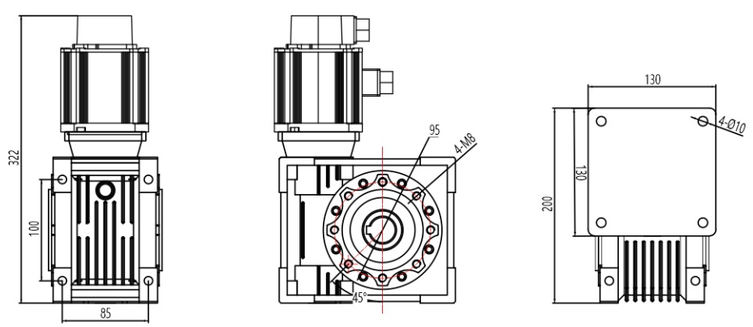
Motor unit

Configuration model:
RV63(Z)-AC5430-With Brake
RV63(Z)-AC5430-Without Brake
Operating Power Supply:
220V±10%
(Customizable According to Customer Requirements)

Outline Drawing of Z5MJ-150 Control Box (mm)



Outline Drawing of RV63(Z)-AC5430– With Brake Motor unit (mm)



Z5MJ-150 Series Specification/Applicable Guidance

Specifications	Z5MJ-150 (5-Pole Pair)
Power output (KW)	1.5kW
Input Voltage (V)	220V±10%
Input Frequency (Hz)	50Hz
Motor Rated Current (A)	9.0A
Motor Rated Torque (N·m) (Motor with 5 pole pairs)	5.4 N·m (1.7x Overload Capacity)
Motor Rated Maximum Speed (Rpm) (Motor with 5 pole pairs)	3000rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic mechanical brake /Electronic Brake
Ambient Temperature (℃)	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)*251mm(W)*110mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	RV63
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300 (s)
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-150

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
1.5kW	1:15	< 20 m²	< 76kg	< 16 m²	< 61kg
	1:20	< 25 m²	< 100kg	< 20 m²	< 82kg
	1:25	< 31 m²	< 126kg	< 25 m²	< 102kg





Z5MJ-220 (5-Pole Pair) Series Fast Door Dedicated Servo for Soft Industrial High-Speed Doors



Control Box

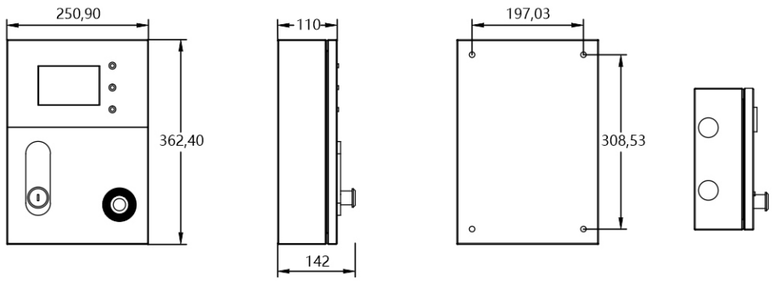
Configuration model: Z5MJ-220
Configuration power: 2.2kW
Display Screen: Touch screen
(Chinese and English)
(Customizable language interfaces available)



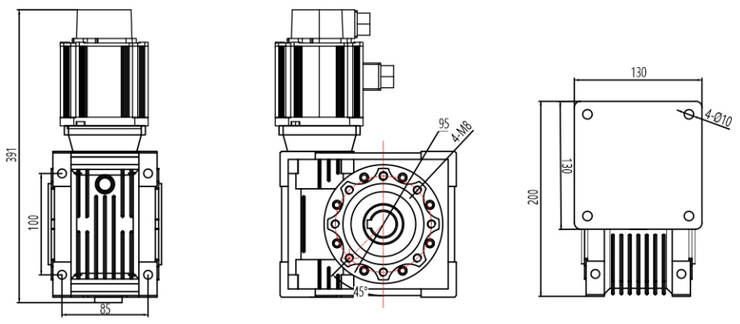
Motor unit

Configuration model:
RV63(Z)-AC14615-With Brake
RV63(Z)-AC14615-Without Brake
Operating Power Supply:
220V±10%
(Customizable According to Customer Requirements)

Outline Drawing of Z5MJ-220 Control Box (mm)



Outline Drawing of RV63(Z)-AC14615– With Brake Motor unit (mm)



Z5MJ-220 Series Specification/Applicable Guidance

Specifications	Z5MJ-220 (5-Pole Pair)
Power output (KW)	2.2kW
Input Voltage (V)	220V±10%
Input Frequency (Hz)	50Hz
Motor Rated Current (A)	10A
Motor Rated Torque (N·m) (Motor with 5 pole pairs)	14.6 N·m (1.5x Overload Capacity)
Motor Rated Maximum Speed (Rpm) (Motor with 5 pole pairs)	1500rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic mechanical brake /Electronic Brake
Ambient Temperature (℃)	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)*251mm(W)*110mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	RV63
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300 (s)
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-220

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
2.2kW	1:15	/	/	<28 m²	<113kg
	1:25	/	/	<47m²	188kg





Z5MJ-075 Series (4-Pole Pair) Series Fast Door Dedicated Servo for Soft/Hard Industrial High-Speed Doors



Control Box

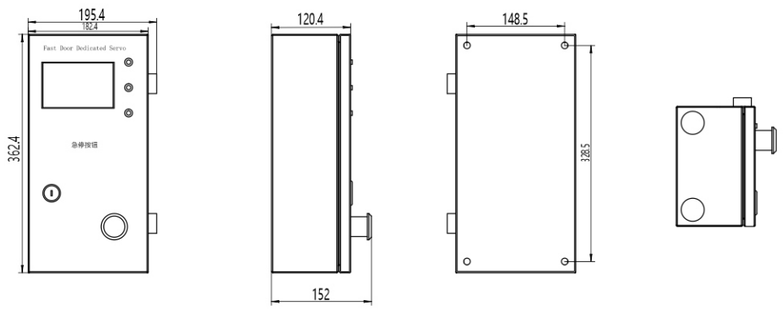
Configuration model: Z5MJ-075
Configuration power: 0.75kW
Display Screen: Touch screen (Chinese and English)
(Customizable language interfaces available)



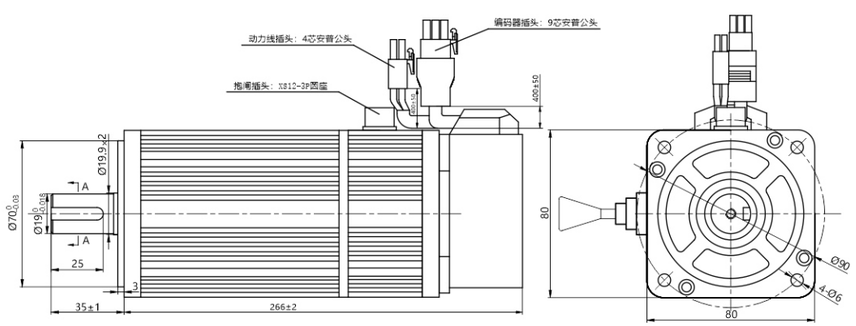
Motor unit

Configuration model: AC2430-With Brake
Operating Power Supply: 220V±10%

Outline Drawing of Z5MJ-075 Control Box（mm）



Outline Drawing of AC2430-With Brake Motor unit（mm）



Z5MJ-075 Series Specification/Applicable Guidance

Specifications	Z5MJ-075（4-Pole Pair）
Power output（KW）	750W
Input Voltage（V）	220V±10%
Input Frequency（Hz）	50Hz
Motor Rated Current（A）	4.0A
Motor Rated Torque (N·m) (Motor with 4 pole pairs)	2.4 N·m (3.0x Overload Capacity)
Motor Rated Maximum Speed (Rpm) (Motor with 4 pole pairs)	3000rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	3.5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic mechanical brake
Ambient Temperature (℃)	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)×195mm(W)×120mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	/
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300（s）
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Motor Matching Recommendations for Z5MJ-075

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
750W	1:15	<10m²	<38kg	<8m²	<31kg
	1:20	<13m²	<50kg	<10m²	<41kg
	1:25	<16m²	<63kg	<13m²	<51kg





Z5MJ-100 Series (4-Pole Pair) Series Fast Door Dedicated Servo for Soft/Hard Industrial High-Speed Doors



Control Box

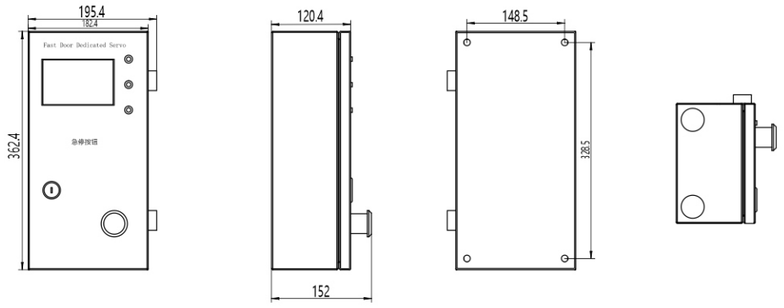
Configuration model: Z5MJ-100
Configuration power: 1.0kW
Display Screen: Touch screen (Chinese and English) (Customizable language interfaces available)



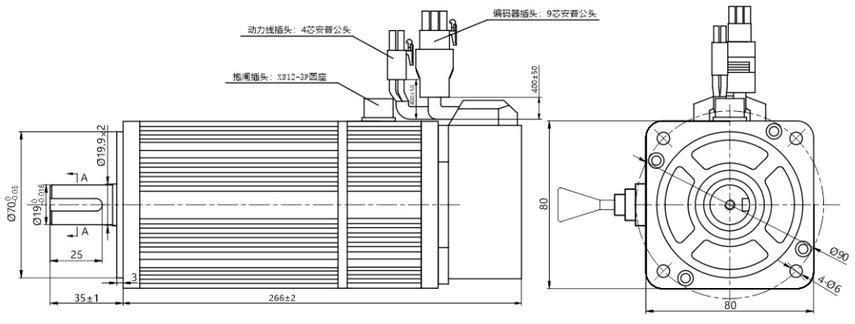
Motor unit

Configuration model: AC4025-With Brake
Operating Power Supply: 220V±10%

Outline Drawing of Z5MJ-100 Control Box (mm)



Outline Drawing of AC4025-With Brake Motor unit (mm)



Z5MJ-100 Series Specification/Applicable Guidance

Specifications	Z5MJ-100 (4-Pole Pair)
Power output (KW)	1KW
Input Voltage (V)	220V±10%
Input Frequency (Hz)	50Hz
Motor Rated Current (A)	4.4A
Motor Rated Torque (N·m) (Motor with 4 pole pairs)	4 N·m (2.5x Overload Capacity)
Motor Rated Maximum Speed (Rpm) (Motor with 4 pole pairs)	2500rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic mechanical brake
Ambient Temperature (℃)	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)×195mm(W)×120mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	/
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300 (s)
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-100

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
1.0kW	1:15	<16m²	<54kg	<13m²	<45kg
	1:20	<20m²	<72kg	<16m²	<60kg
	1:25	<25m²	<90kg	<20m²	<72kg





Z5MJ-150 (4-Pole Pair) Series Fast Door Dedicated Servo forSoft/Hard Industrial High-Speed Doors



Control Box

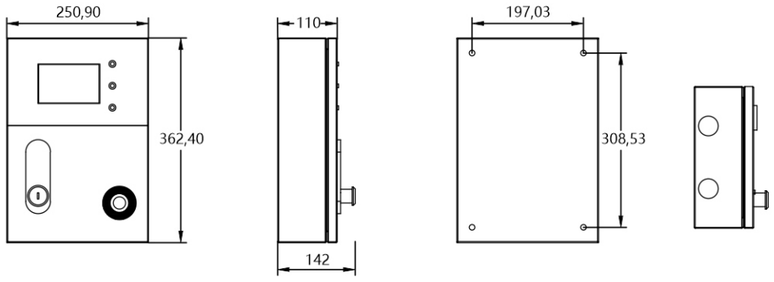
Configuration model: Z5MJ-150
Configuration power: 1.5kW
Display Screen: Touch screen (Chinese and English)
(Customizable language interfaces available)



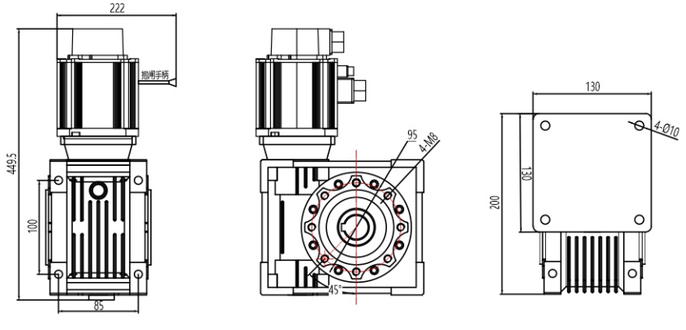
Motor unit

Configuration model:
RV63(Z)-AC6025-With Brake
Operating Power Supply:
220V±10%

Outline Drawing of Z5MJ-150 Control Box（mm）



Outline Drawing of RV63(Z)-AC6025 – With Brake Motor unit（mm）



Z5MJ-150 Series Specification/Applicable Guidance

Specifications	Z5MJ-150 (4-Pole Pair)
Power output（KW）	1.5kW
Input Voltage（V）	220V±10%
Input Frequency（Hz）	50Hz
Motor Rated Current（A）	6.0A
Motor Rated Torque (N·m) (Motor with 4 pole pairs)	6 N·m (2.5x Overload Capacity)
Motor Rated Maximum Speed (Rpm) (Motor with 4 pole pairs)	2500rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	3.5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic mechanical brake
Ambient Temperature (℃)	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)*251mm(W)*110mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	RV63
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300（s）
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-150

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
1.5kW	1:15	＜20m²	＜76kg	＜16m²	＜61kg
	1:20	＜25m²	＜100kg	＜20m²	＜82kg
	1:25	＜31m²	＜126kg	＜25m²	＜102kg





Z5MJ-220 (4-Pole Pair) Series Fast Door Dedicated Servo for Soft/Hard Industrial High-Speed Doors



Control Box

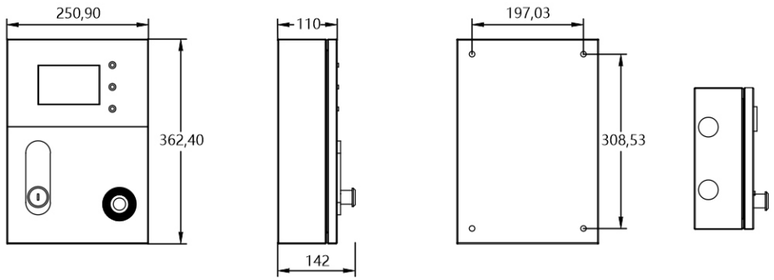
Configuration model: Z5MJ-220
Configuration power: 2.2kW
Display Screen: Touch screen (Chinese and English)
(Customizable language interfaces available)



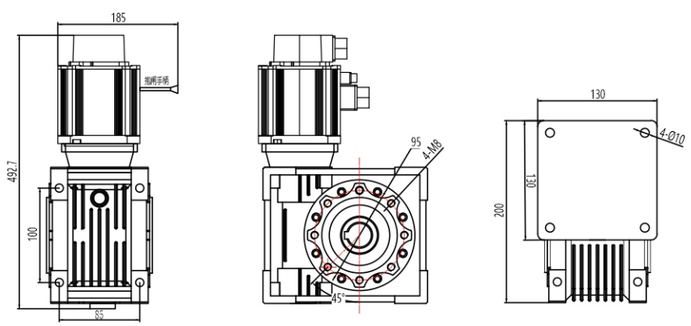
Motor unit

Configuration model: RV63(Z)-AC15015– With Brake
Operating Power Supply: 220V±10%

Outline Drawing of Z5MJ-220 Control Box（mm）



Outline Drawing of RV63(Z)-AC15015 – With Brake Motor unit（mm）



Z5MJ-220 Series Specification/Applicable Guidance

Specifications	Z5MJ-220 (4-Pole Pair)
Power output（KW）	2.2kW
Input Voltage（V）	220V±10%
Input Frequency（Hz）	50Hz
Motor Rated Current（A）	9.5A
Motor Rated Torque (N·m) (Motor with 4 pole pairs)	15 N·m (1.5x Overload Capacity)
Motor Rated Maximum Speed (Rpm) (Motor with 4 pole pairs)	1500rpm
Motor Protection Rating	IP65
Standard Power Line/ Encoder Cable Length (m)	5m
Limit Switch (Encoder)	17-bit Multi-turn Absolute Encoder
Self-locking Method	Electronic mechanical brake
Ambient Temperature (℃)	(-20~50) ℃
Control Box Dimensions (mm)	362mm(L)*251mm(W)*110mm(H)
Motor size	Refer to Dimensional Drawing for Accuracy
Reducer	RV63
Control Panel Functions	
Display Screen	4.3-inch Programmable Touchscreen
Door Opening/Closing Speed Setting (rpm)	Motor Rated Speed
Opening/Closing Acceleration and Deceleration Settings (ms)	/
Automatic Door Closing Delay Time (s)	0-300（s）
Partial Door Opening Height (%)	Customizable Height within Limit Range
Operation Status Display Selection	Main Interface
Control Panel Expansion Functions	
Language Display	Chinese & English (Other languages customizable)
Historical Fault Inquiry	√
Jog Mode	√
Motor Forward/ Reverse Operation	√
Interface Logic Switching (NC/NO)	√
Low Temperature Anti-freeze Function	√

Control Box Interfaces	
Network Communication Interface	RS485
Safety Protection Signal Input	Emergency Stop Action
Automatic Full Opening Signal Input	√
Partial Open Signal Input	√
Single-button Cycle Control	√
Interlock Input	√
Programmable Relay Output	2 Sets (Expandable)
Programmable Diode Output	2 Sets (Expandable)
Manual/Automatic Switching Input	Touchscreen Switching
Emergency Stop Input	√
Supported limit types	Motor with Built-in Multi-turn Absolute Encoder

Motor Matching Recommendations for Z5MJ-220

Motor Power	Gearbox Ratio	Applicable Area for Ø114 Roller	Applicable Weight for Ø114 Roller	Applicable Area for Ø140 Roller	Applicable Weight for Ø140 Roller
2.2kW	1:15	/	/	<28m²	<113kg
	1:25	/	/	<47m²	188kg



