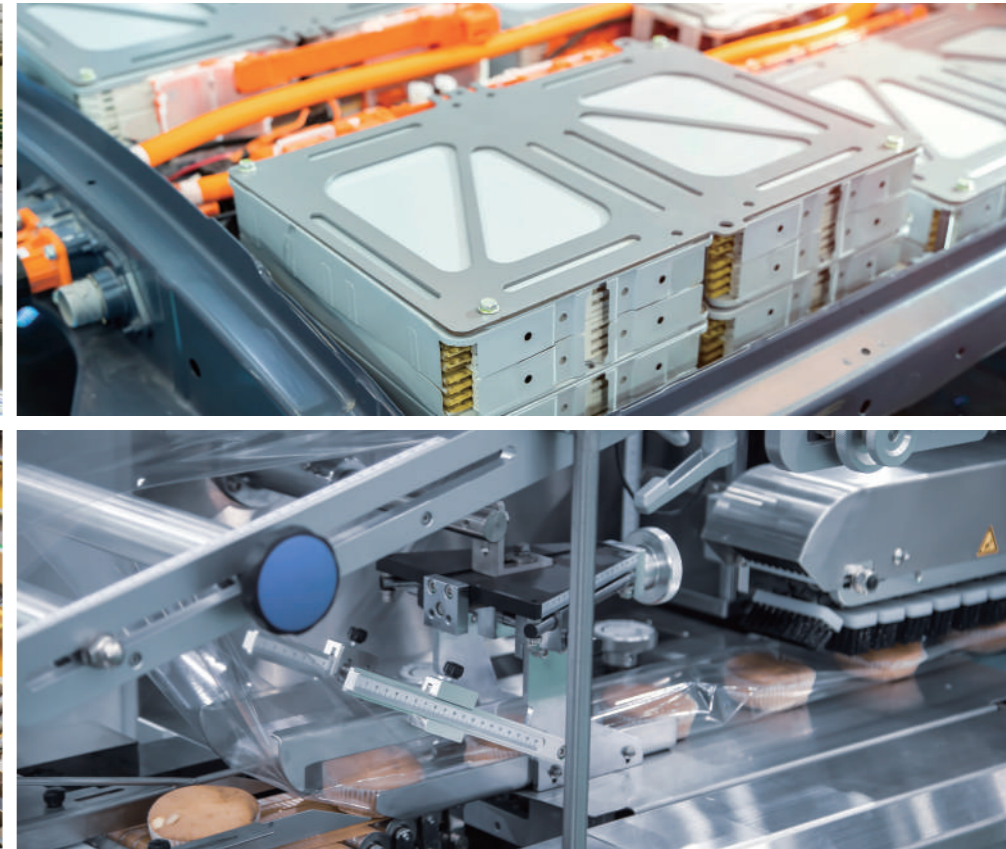
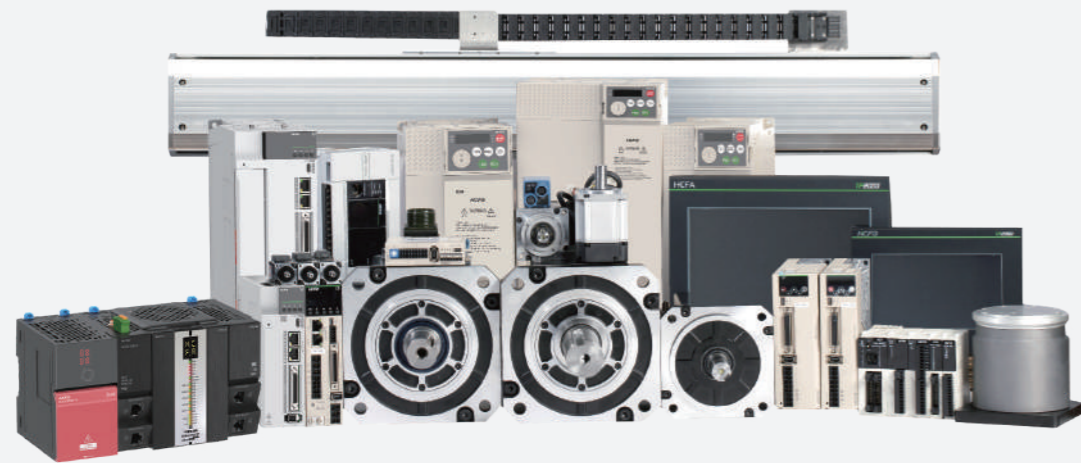


To be the most valuable industrial automation core components and solutions provider



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X3E Series General-purpose Servo Drive

Naming Rule

SV-X3E B - 075 - A - A 2 - 00 000

1 2 3 4 5 6 7 8

Product type	
A	Standard type
B	EtherCAT bus- type
N	CANOpen bus-type

4 Control power	
A	AC power

Power specifications	
005	50W
010	100W
020	200W
040	400W
075	750W
100	1KW
150	1.5KW
200	2KW
250	2.5KW

5 Product iteration serial number	
2	N/A

6 Hardware type	
00	N/A
AO	Analog output
PG	PG extension

7 Software customized mark	
000	N/A

Voltage specifications	
A	AC220V

8 Non-standard models (hardware identification + software identification)	
PG000	Full-closed loop
PG005	Gantry synchronization



LCD display | **Compact design**

Compact design | **Rich bus-type**



General Specifications

Items	Specifications								
Models	005	010	020	040	075	100	150	200	250
Power (W)	50	100	200	400	750	1000	1500	2000	2500
Rated current (Arms)	0.9	1.2	2	3	4.5	6	10	12.5	15.6
Continuous running current (Arms)	0.9	1.2	2	3	4.5	6	10	12.5	15.6
Max. output current (Arms)	2.7	3.6	6	9	13.5	18	30	37.5	37.5
power specifications	Single-phase220V 50~60Hz				Three-phase220V 50~60Hz				
Control power	Single-phase220V								
Applicable encoder	17bit/23bit								
Control mode	Six control mode: Position control, speed control, torque control, position/speed control, position/torque control, speed/torque control								

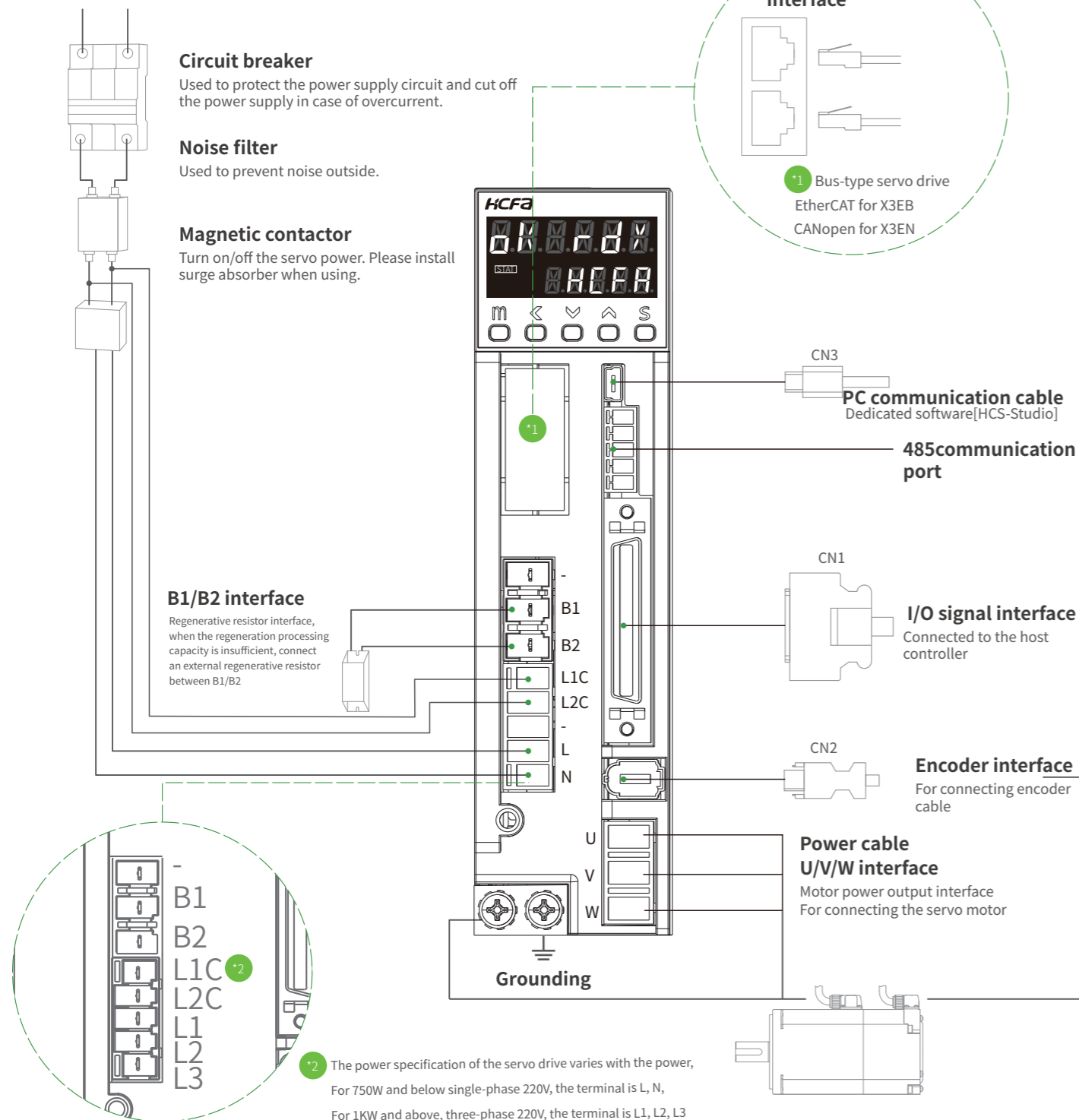
Environment Specifications

Items	Specifications	
Temperature	Ambient temperature for use	0~55°C
	Ambient temperature for storage	-20~65°C
Humidity	Ambient humidity for use	20~85%RH or less(Without condensation)
	Ambient humidity for storage	20~85%RH or less(Without condensation)
Atmosphere for use& storage	Indoors(Not subject to direct sunlight); free from corrosive gas, flammable gas, oil mist, or dust	
Altitude	1000m or less above sea level	
Vibration	5.8m/s ² (0.6G) or less, 10~60Hz(No continuous operation allowed at frequency of resonance)	
Dielectric strength	1 minute at 1500 VAC across the primary and FG	

Technical Specifications

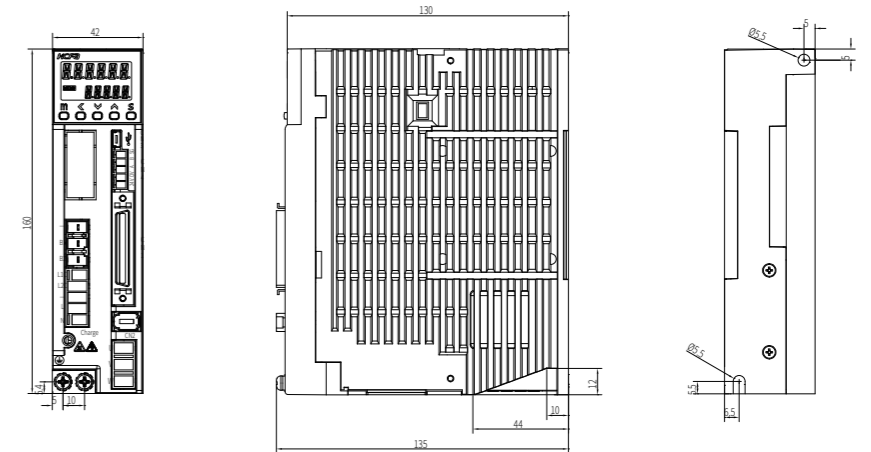
Items		Specifications		
Position control	Pulse input	Max input pulse frequency	Open-collector pulse input: Up to 200KHz, pulse width larger than 2.5us	
		Input pulse form	General input: Up to 500KHz, pulse width larger than 1 us	
			High-speed input: Up to 4MHz, pulse width larger than 125ns	
	Electronic gear setting	Pulse+ direction, A-Phase + B-Phase, CW+CCW		
		Electronic gear : A/B (Encoder resolution/10000000 < A/B <Encoder resolution/2.5)		
	Pulse output	Smoothing	Smoothing filter, FIR filter	
		Output pulse	Encoder position or pulse synchronization output	
Division ratio		Arbitrary frequency division		
Internal position mode	Output pulse form	Differential output: A/B/ Z, Open collector output: Z-phase		
	Segment 1-16 internal position planning			
Speed control	Control method	External analog command control/0~16 segments speed selection can be realized by DI terminal combination./Communication setting		
	Analog input voltage range	DC±10V(Maximum speed at 10V)		
	Torque limit function	Internal parameter setting or analog input		
Torque control	Control method	External analog instruction control/internal parameter/DI terminal switch(analog/internal parameter)/communication setting		
	Analog input voltage range	DC±10V(Rated torque at 10V)		
	Speed limit	Internal parameter setting or analog input		
Common functions	Control signal	I/O	9IN/9OUT	
	Analog signal	I/O	2IN (±10v)	
	Speed monitoring	Provided		
	Vibration control	Provided		
	Adaptive notch filter	Provided		
	Auto-tuning	Provided		
	Encoder output division and multiplication	Provided		
	Dynamic brake	Can be connected externally		
	Regeneration function	A larger power braking resistor can be connected		
	Protective functions	Overvoltage, power supply error, overcurrent, overheat, overload, encoder error, over speed, position deviation too large, parameter error		
Communication	USB	For PC communication (「Servostudio」connection)		
	Type	RS485	B:EtherCAT	N:CANOPEN

Main power supply AC220V



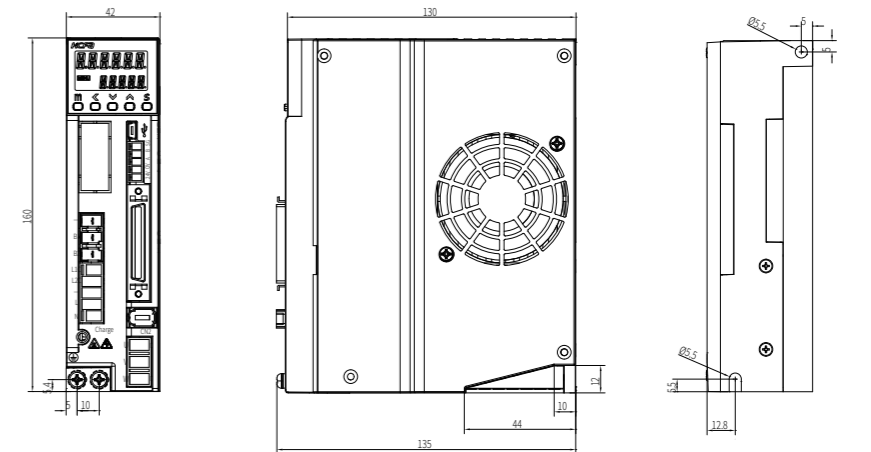
For models of 200W or less Unit:mm

Weight (KG)
0.82



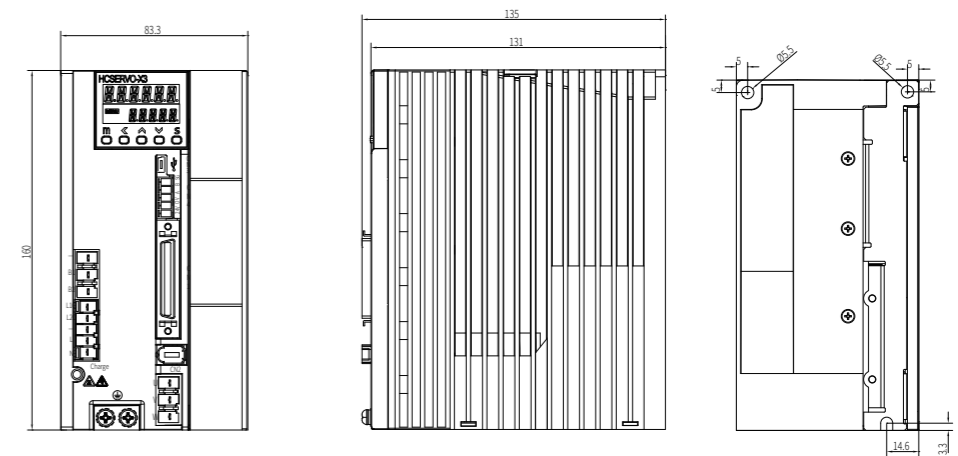
For models of 400W/750W Unit:mm

Weight (KG)
0.86

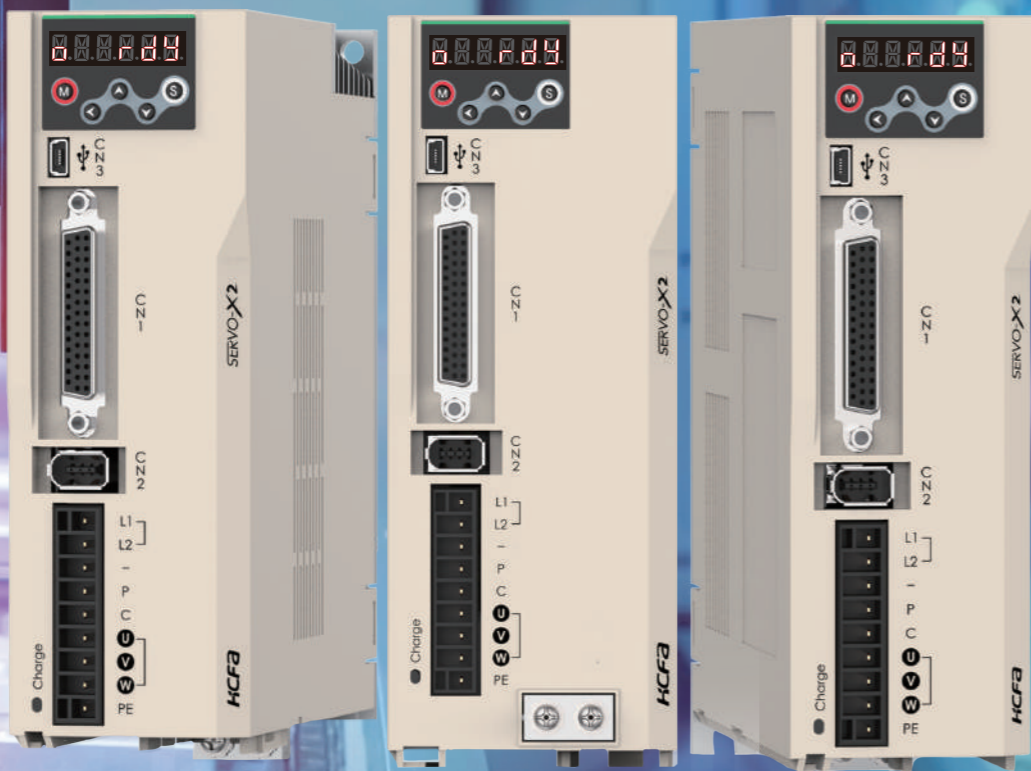


For models of 1KW/1.5KW/2KW/2.5KW Unit:mm

Weight (KG)
1.34



X2E Series Simple-type Servo Drive



Naming Rule

SV-X2E A - 075 - A - A 0 - 00 000

1 2 3 4 5 6 7

1 Product type	
A	Standard pulse type
N	CANopen bus-type

2 Power specifications	
005	50W
010	100W
020	200W
040	400W
075	750W
100	1KW
150	1.5KW
200	2KW
250	2.5KW

3 Voltage specifications	
A	AC220V

4 Control power	
A	AC power

5 Product iteration serial number	
0	N/A

6 Hardware type	
00	N/A

7 Software customized mark	
000	N/A



Compact size | Space optimized

General Specifications

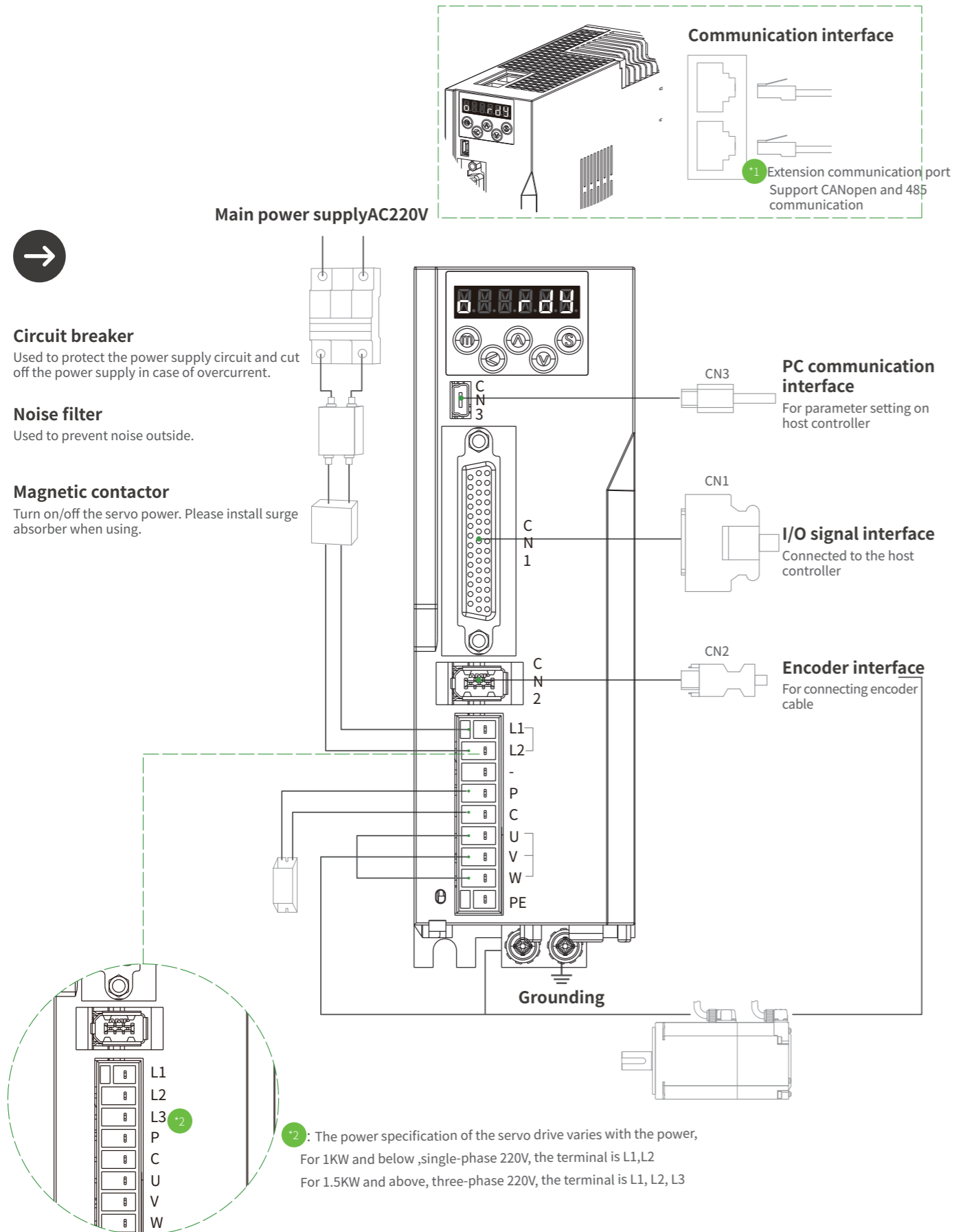
Items	Specifications								
Models	005	010	020	040	075	100	150	200	250
Power (W)	50	100	200	400	750	1000	1500	2000	2500
Rated current (Arms)	0.9	1.2	2	3	4.5	6	10	12.5	15.6
Continuous running current (Arms)	0.9	1.2	2	3	4.5	6	10	12.5	15.6
Max. output current (Arms)	2.7	3.6	6	9	13.5	18	30	37.5	37.5
power specifications	Single-phase 220V 50~60Hz					three-phase 220V 50~60Hz			
Control mode	Six control mode: Position control, speed control, torque control, position/speed control, position/torque control, speed/torque control								
Applicable encoder	17bit								

Environment Specifications

Items	Specifications	
Temperature	Ambient temperature for use	0~55°C
	Ambient temperature for storage	-20~65°C
Humidity	Ambient humidity for use	20~85%RH or less(Without condensation)
	Ambient humidity for storage	20~85%RH or less(Without condensation)
Atmosphere for use& storage	Indoors(Not subject to direct sunlight); free from corrosive gas, flammable gas, oil mist, or dust	
Altitude	1000m or less above sea level	
Vibration	5.8m/s ² (0.6G) or less, 10~60Hz(No continuous operation allowed at frequency of resonance)	
Dielectric strength	1 minute at 1500 VAC across the primary and FG	

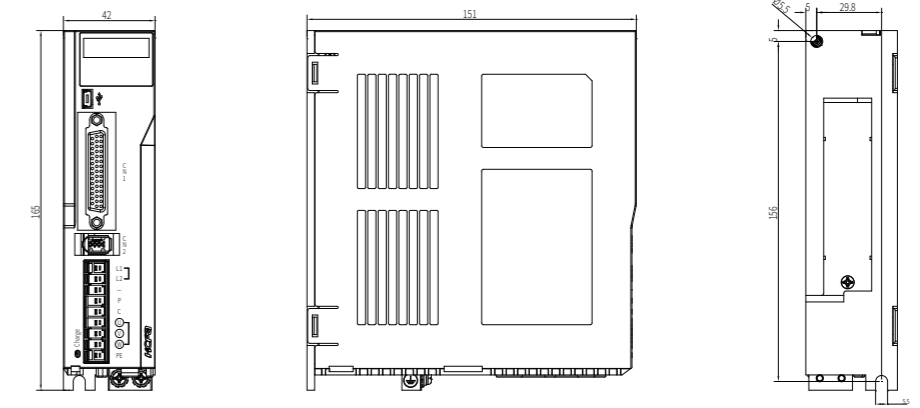
Technical Specifications

Items		Specifications		
Position control	Pulse input	Max input pulse frequency	Open-collector pulse input: Up to 200KHz, pulse width larger than 2.5us General input: Up to 500KHz, pulse width larger than 1 us High-speed input: Up to 4MHz, pulse width larger than 125ns	
		Input pulse form	Pulse+ direction, A-Phase + B-Phase, CW+CCW	
		Electronic gear setting	Electronic gear : A/B (Encoder resolution/10000000 < A/B < Encoder resolution/2.5)	
		Smoothing	Smoothing filter, FIR filter	
	Pulse output	Output pulse	Encoder position or pulse synchronization output	
		Division ratio	Arbitrary frequency division	
		Output pulse form	Differential output: A/B/ Z, Open collector output: Z-phase	
Internal position mode		Segment 1-16 internal position planning		
Speed control	Control method		Internal parameter P03.03 /0~16 segments speed selection can be realized by DI terminal combination	
	Torque limit function		Internal parameter setting	
Torque control	Control method		Set the speed instruction value by P03.25	
	Speed limit		Set the positive and negative internal speed limit by P03.27, P03.28	
Common functions	Control signal	I/O	8IN/5OUT	
	Analog signal	I/O	N/A	
	Speed monitoring		Provided	
	Vibration control		Provided	
	Adaptive notch filter		Provided	
	Auto-tuning		Provided	
	Encoder output division and multiplication		Provided	
	Dynamic brake		Provided	
	Regeneration function		A larger power braking resistor can be connected	
	Protective functions		Overvoltage, power supply error, overcurrent, overheat, overload, encoder error, over speed, position deviation too large, parameter error	
	Communication	USB	For PC communication (「Servostudio」connection)	
		Models	RS485	N:CANOPEN



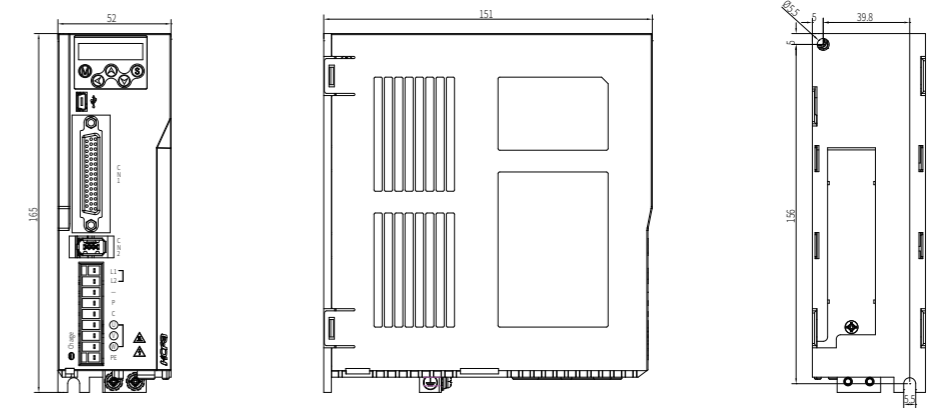
For models of 200W or less Unit:mm

Weight (KG)
0.84



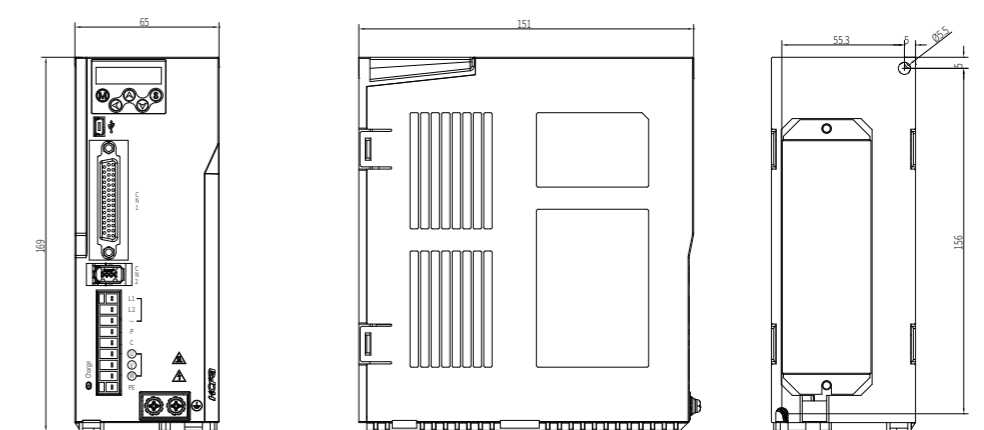
For models of 400W/750W/1KW Unit:mm

Weight (KG)
0.87



For models of 1.5KW/2KW/2.5KW Unit:mm

Weight (KG)
1.23



X6

Series Intelligent Servo Drive

Naming Rule

SV-X6 E A - 075 - A - A 0 - 00 000
1 2 3 4 5 6 7 8

1 Functional classification	
E	Standard type
F	Full function type
L	Linear type

2 Product type	
A	Standard Common type
B	EtherCAT bus-type
N	CANopen bus-type
R	PROFINET type

3 Product power	
005	50W
010	100W
020	200W
040	400W
075	750W
100	1KW
150	1.5KW
200	2KW
250	2.5KW
300	3KW
500	5KW
750	7.5KW

4 Voltage specifications	
A	AC220V
T	AC380V

5 Control power	
A	AC power control

6 Product iteration serial no.	
2	N/A

7 Hardware type	
00	N/A

8 Software customized mark	
000	N/A



- LCD display | High ease of use Position control
- Compact Design | Automatic rigidity adjustment
- Rich bus-type | EtherCAT Technology Group

General Specifications

Item	Specifications												
SV-X6 Series	005	010	020	040	075	100	150	200	250	200	300	500	750
Drive Power (W)	50	100	200	400	750	1000	1500	2000	2500	2000	3000	5000	7500
Rated Current (Arms)	0.9	1.2	2	3	4.5	6	10	12.5	15.6	6	9	13.5	21
Continuous running current (Arms)	0.9	1.2	2	3	4.5	6	10	12.5	15.6	6	9	13.5	21
Max Output Current (Arms)	2.7	3.6	6	9	13.5	18	30	37.5	37.5	18	27	40.5	52.5
Mian Circuit Power	single-phase 220 50~60 Hz					3-phase 220 50~60Hz					3-phase 380 50~60Hz		
Control Power	Single-phase 220V						Single-phase 380V						
Applicable encoder	17bit/23bit												
Control mode	7 control modes: position control, speed control, torque control, position/speed control, position/torque control, speed/torque control, entire closed-loop control (support X6FA/X6FB)												

Environment Specifications

Item	Specifications	
Temperature	Ambient temperature for use	0~55°C
	Ambient temperature for storage	-20~65°C
Humidity	Ambient temperature for use	20~85%RH or less(Without condensation)
	Ambient temperature for storage	20~85%RH or less(Without condensation)
Atmosphere for use& storage	Indoors(Not subject to direct sunlight); free from corrosive gas, flammable gas, oil mist, or dust	
Altitude	1000m or less	
Vibration	5.8m/s ² (0.6G) or less, 10~60Hz(No continuous operation allowed at frequency of resonance)	
Insulation and dielectric strength	1 minute at 1500 VAC across the primary and FG	

Config. Specifications

Function	Pluses Standard	Pluses full-fuctions	EtherCAT standard	EtherCAT full-fuctions	CANOpen standard	CANOpen full-fuctions	Profinet standard	Profinet full-fuctions
Analog Input		2x		2x		2x		2x
Analog Output		2x		2x		2x		2x
Pluses Input	✓	✓						
Pulse divider output	✓	✓		✓		✓		✓
STO Function	✓	✓		✓		✓		✓
Secondary Encoder	USB/485	USB/485	USB	USB/485	USB/485	USB/485	USB	USB
Z-phase collector output		✓		✓		✓		✓
Serial communication		✓		✓		✓		✓

Technical Specifications

Item	Specifications		
Position control	Pulse input	Max input pulse frequency	Open-collector pulse input: Up to 200KHz, pulse width larger than 2.5us
		Input pulse form	General input: Up to 500KHz, pulse width larger than 1 us
		Electronic gear setting	High-speed input: Up to 4MHz, pulse width larger than 125ns
	Pulse output	Smoothing	Pulse+ direction, A-Phase + B-Phase, CW+CCW
		Output pulse	Electronic gear : A/B (Encoder resolution/10000000 < A/B < Encoder resolution/2.5)
		Division ratio	Smoothing filter, FIR filter
		Output pulse form	Encoder position or pulse synchronization output
Internal position mode	Arbitrary frequency division		
Speed control	Control method	Segment 1-16 internal position planning	
	Analog input voltage range	External analog command control/0-16 segments speed selection can be realized by DI terminal combination./Communication setting	
	Torque limit function	DC±10V(Maximum speed at 10V)	
Torque control	Control method	Internal parameter setting or analog input	
	Analog input voltage range	External analog instruction control/internal parameter/DI terminal switch(analog/internal parameter)/communication setting	
	Speed limit	DC±10V(Rated torque at 10V)	
Common functions	Control signal	I/O	9IN/9OUT
	Analog signal	I/O	2IN (±10v)
	Speed monitoring	Provided	
	Vibration control	Provided	
	Adaptive notch filter	Provided	
	Auto-tuning	Provided	
	Encoder output division and multiplication	Provided	
	Dynamic brake	Can be connected externally	
	Regeneration function	A larger power braking resistor can be connected	
	Protective functions	Overvoltage, power supply error, overcurrent, overheat, overload, encoder error, over speed, position deviation too large, parameter error	
Communication	USB	For PC communication (「Servostudio」connection)	
	Type	RS485	B:EtherCAT N:CANOPEN



Circuit breakers

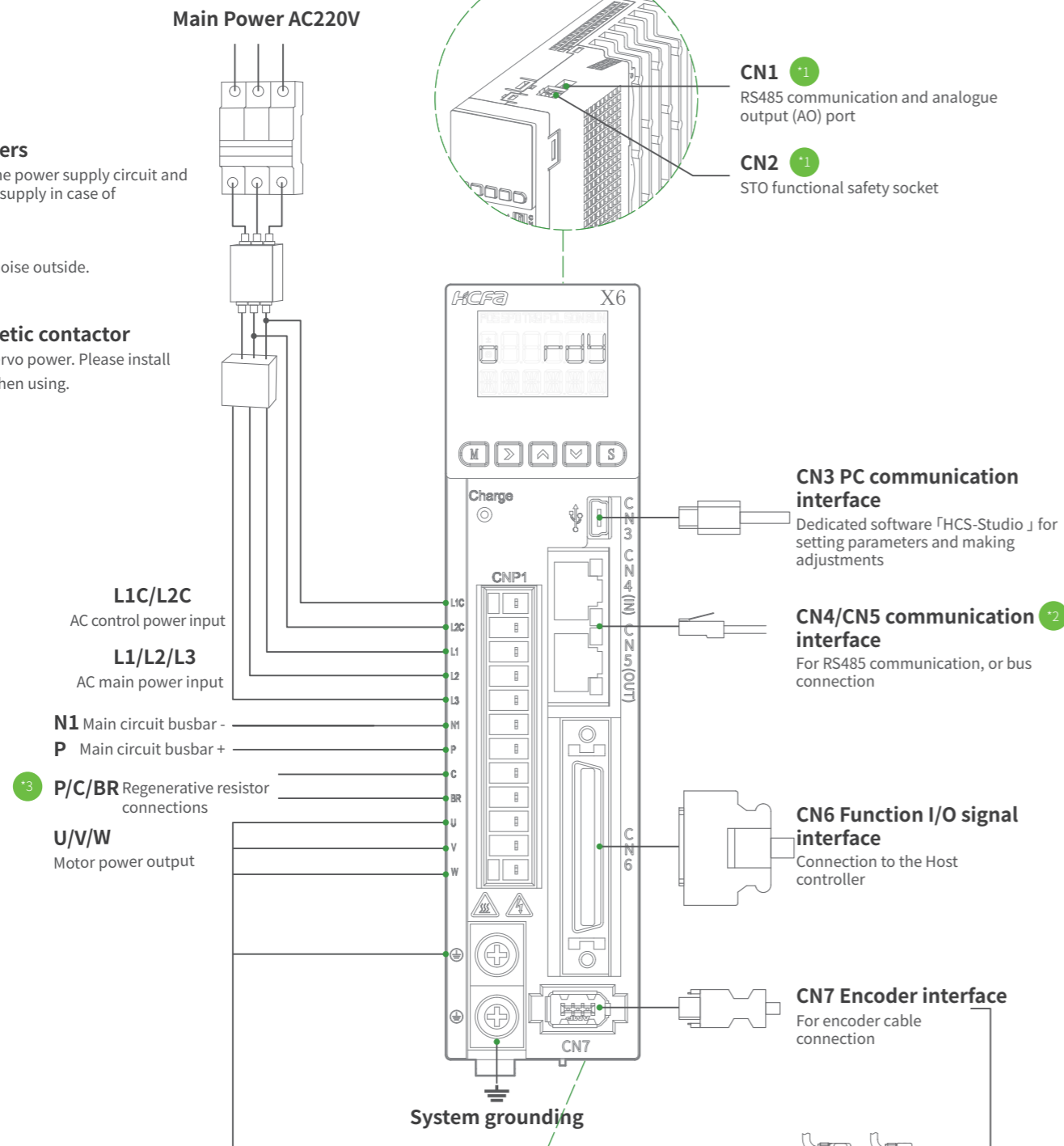
Used to protect the power supply circuit and cut off the power supply in case of overcurrent.

Noise filter

Used to prevent noise outside.

Electromagnetic contactor

Turn on/off the servo power. Please install surge absorber when using.



*1 Only for full-functional models

*2 Pulse type for RS485 communication
CANopen EtherCAT Pro finet models are used in bus communication interfaces

*3 P/C shorting required when using the driver's built-in regenerative resistor
When an external regenerative resistor is used, P/BR is inserted and the P/C stub is removed



Circuit breakers

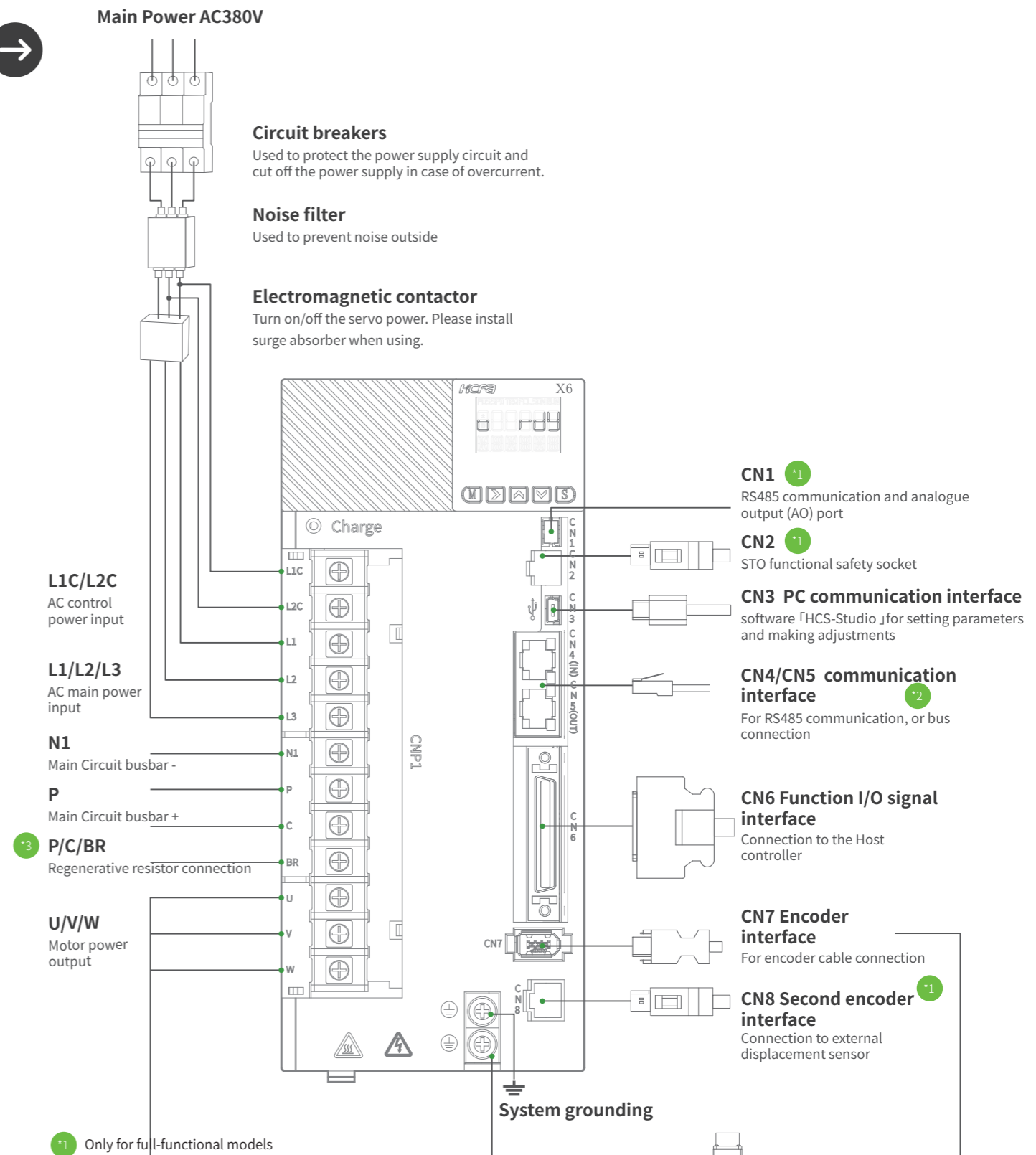
Used to protect the power supply circuit and cut off the power supply in case of overcurrent.

Noise filter

Used to prevent noise outside

Electromagnetic contactor

Turn on/off the servo power. Please install surge absorber when using.



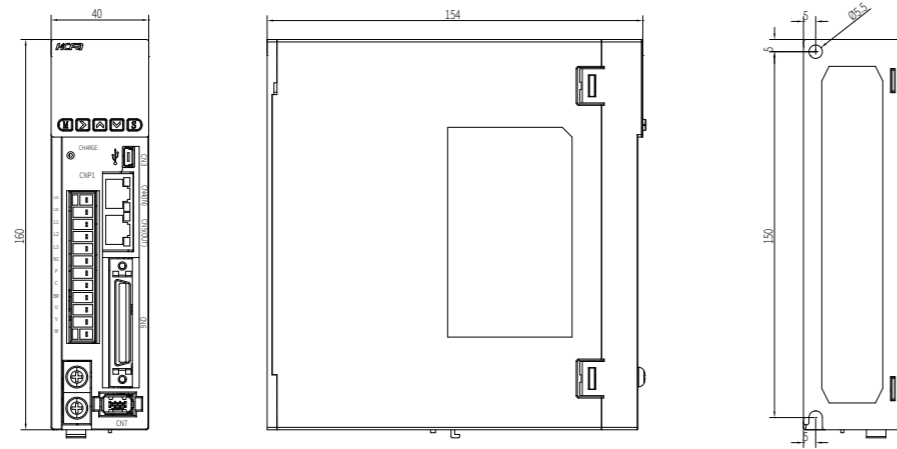
*1 Only for full-functional models

*2 Pulse type for RS485 communication
CANopen EtherCAT Pro finet models are used in bus communication interfaces

*3 P/C shorting required when using the driver's built-in regenerative resistor
When an external regenerative resistor is used, P/BR is inserted and the P/C stub is removed

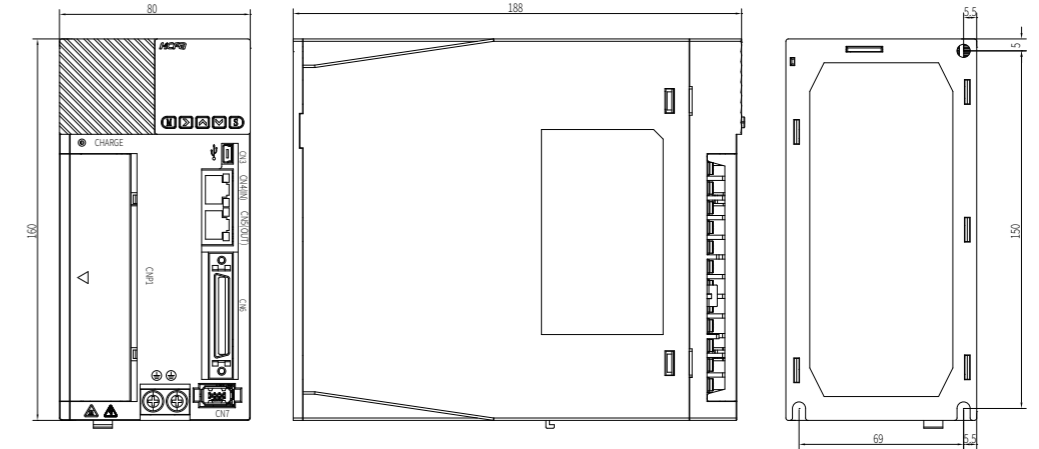
External dimensions for 50W/100W/200W/400W Unit:mm

Weight (KG)
0.8



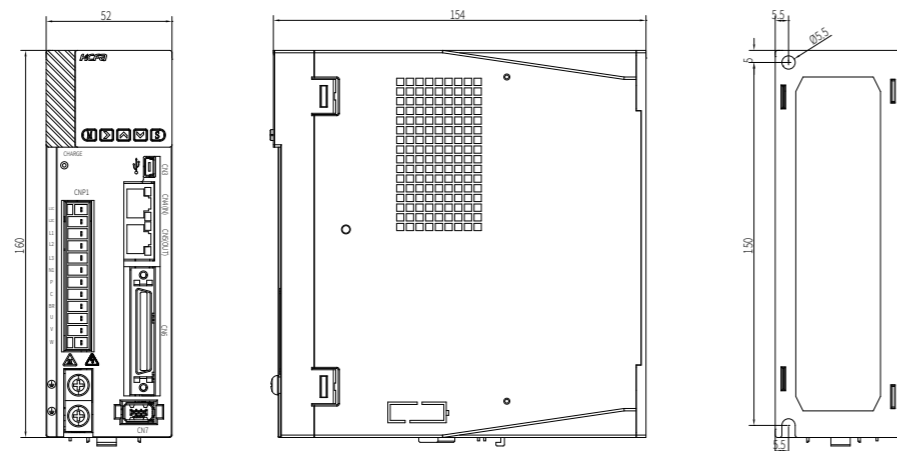
External dimensions for 2.5KW/3KW Unit:mm

Weight (KG)
1.7



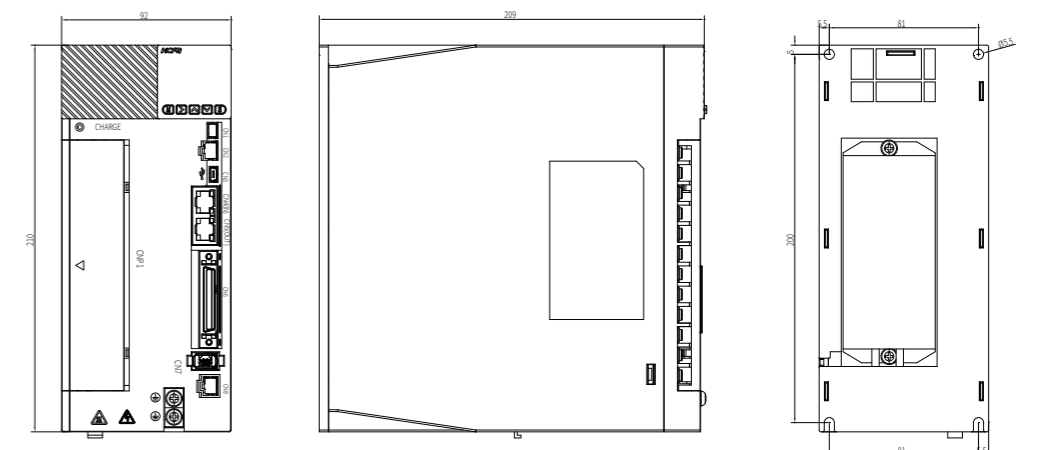
External dimensions for 750W/1KW Unit:mm

Weight (KG)
1



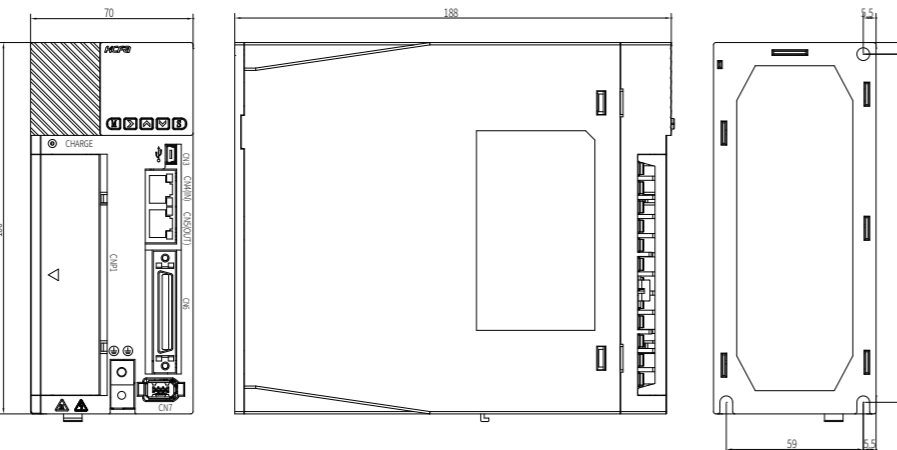
External dimensions for 5KW/7.5KW Unit:mm

Weight (KG)
3.1



External dimensions for 1.5KW/2KW Unit:mm

Weight (KG)
1.5



X5E Series Advanced Servo Drive

Naming Rule

SV-X5E B - 075 - A - A 0 - 00 000

1 2 3 4 5 6 7

1 Product Type	
A	Standard type
B	EtherCAT bus-type
N	CANopen bus-type

4 Control Power	
A	AC Power control

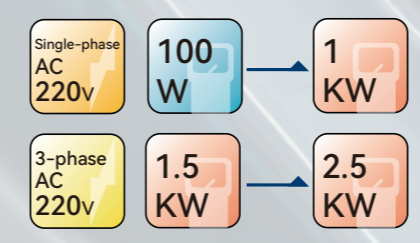
2 Product Power	
010	100W
040	400W
075	750W
100	1KW
150	1.5KW
200	2KW
250	2.5KW

5 Product Iteration Serial No.	
0	N/A

6 Hardware Type	
00	N/A
01	STO

3 Voltage Specification	
A	AC220V

7 Software Customised Mark	
000	N/A



Compact size | Powerful Performance | Prominent Features

General Specifications

Item	Specifications						
Driver Type	010	040	075	100	150	200	250
Power (W)	100	400	750	1000	1500	2000	2500
Rated Current (Arms)	1.2	3	4.5	6	10	12.5	15.6
Continuous running current (Arms)	1.2	3	4.5	6	10	12.5	15.6
Max Output Current (Arms)	3.6	9	13.5	18	30	37.5	37.5
Power Specification	Single-phase 220V 50~60Hz			3-phase 220V 50~60Hz			
Control Mode	control modes: position control, speed control, torque control, position/speed control, position/torque control, speed/torque control.						
Applicable encoder	17bit/23bit						

Environment Specifications

Item	Specifications	
Temperature	Ambient temperature for use	0~55°C
	Ambient temperature for storage	-20~65°C
Humidity	Ambient temperature for use	20~85%RH or less(Without condensation)
	Ambient temperature for storage	20~85%RH or less(Without condensation)
Atmosphere for use& storage	Indoors(Not subject to direct sunlight); free from corrosive gas, flammable gas, oil mist, or dust	
Altitude	1000m or less above sea level	
Vibration	5.8m/s ² (0.6G) or less, 10~60Hz(No continuous operation allowed at frequency of resonance)	
Insulation and dielectric strength	1 minute at 1500 VAC across the primary and FG	

Technical Specifications

Item		Specifications		
Position Control	Pluse Input	Max Pluse frequency	Open-collector pulse input: Up to 200KHz, pulse width larger than 2.5us General input: Up to 500KHz, pulse width larger than 1 us High-speed input: Up to 4MHz, pulse width larger than 125ns	
		Input pulse form	Pulse + Directions, Phase A + Phase B, CW + CCW	
		Electronic gear setting	Electronic gear : A/B (Encoder resolution/10000000 < A/B < Encoder resolution/2.5)	
		Smoothing	Smoothing filters, FIR filters	
	Pluses Output	Output pulse function	Encoder position or pulse synchronisation output	
		Division ratio	Arbitrary frequency division	
		Output pulse form	Differential output: A/B/ Z, Open collector output: Z-phase	
	Internal position mode		Segment 1-16 internal position planning	
Speed Control	Control Method	Internal parameter P03.03 /1~16 segments speed selection can be realized by DI terminal combination		
	Torque Limiting Function	Internal parameter		
Torque Control	Control Method	Set the speed instruction value by P03.25		
	Speed Limiting Function	Set the positive and negative internal speed limit by P03.27, P03.28		
Common functions	Control signal	input/output	9IN/8OUT (busbar type 5IN/3OUT)	
	Speed monitoring function		Provided	
	Vibration control function		Provided	
	adaptive notch filter		Provided	
	Auto-tuning		Provided	
	Encoder output division and multiplication		Provided	
	dynamic brake		built-in	
	Regeneration function		A larger power braking resistor can be connected	
	protective function		Overvoltage, power supply error, overcurrent, overheat, overload, encoder error, over speed, position deviation too large, parameter error	
	communication function	USB	For PC communication (for "Servostudio" connection)	
Type		RS485	B:EtherCAT	N:CANOPEN



Circuit breakers

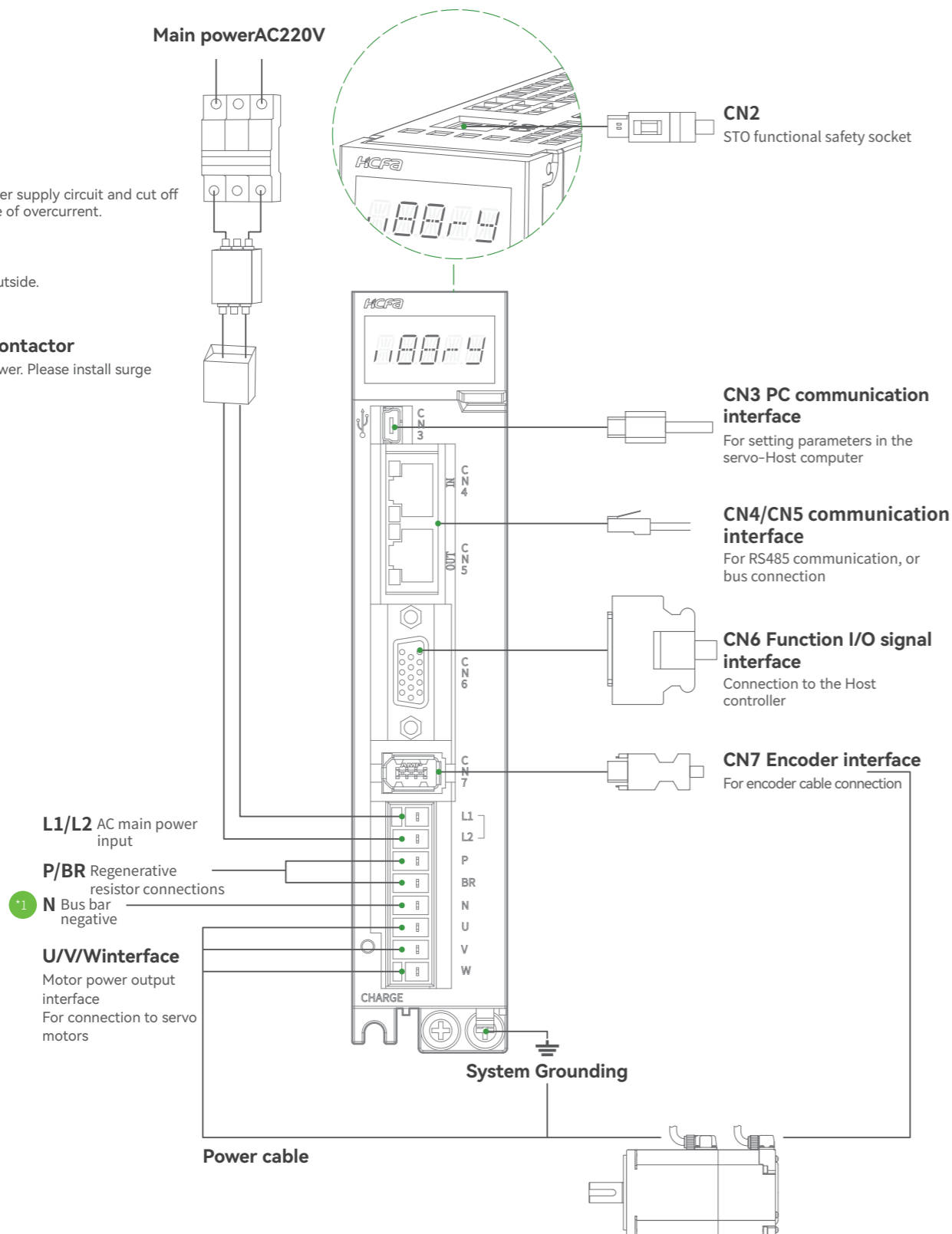
Used to protect the power supply circuit and cut off the power supply in case of overcurrent.

Noise filter

Used to prevent noise outside.

Electromagnetic contactor

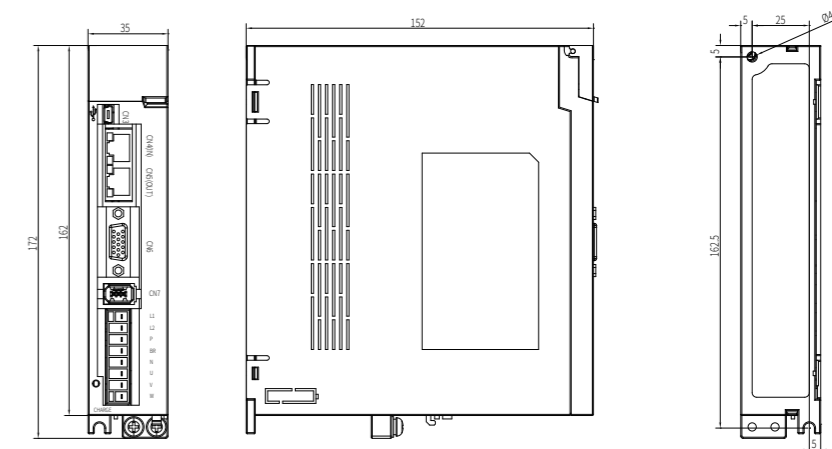
Turn on/off the servo power. Please install surge absorber when using.



For using DC bus, do not connect the neutral line

External dimensions for 400W Unit: mm

Weight (KG)
0.75



External dimensions for 750W/1KW Unit: mm

Weight (KG)
1.1

