

SHR6E Intelligent Motor Soft Starter



Feature Description:

More Control

- The SHR6E soft starter/cabinet adopts the new generation of soft starting technology. The adaptive control enables the control of the motor's acceleration curve and deceleration curve to an unprecedented level.
- The soft starter reads the data of the motor during the starting and stopping processes, and then adjusts it to achieve the best effect. Just select the curve that is most suitable for your load type, and the soft starter will automatically ensure that the load is accelerated in the smoothest possible way.

Easy to Use

- The SHR6E is easy to use, whether during installation, commissioning, operation, or troubleshooting.
- The quick - setting feature allows the machine to start running promptly. The information screen can display various operating data and show trip messages in text, precisely indicating where the problem lies.
- You can choose to route the control incoming wires from the top, bottom, or left side, which is very flexible. The unique cable access and fixing devices make the installation faster, neater, and more aesthetically pleasing. You'll soon experience how simple it is to use the SHR6E

Product Features

The SHR6E is a highly intelligent, reliable, and user - friendly soft starter. The newly designed functions of the SHR6E, which are used for quick setting or more personalized control, are a perfect solution. Its features include:

- A large LCD screen that can display feedback information in both Chinese and English, and other languages can be customized.
- A remotely installable operation panel.
- Intuitive programming.
- Advanced starting and stopping control functions.
- A series of motor protection functions.
- Extensive performance monitoring and event recording.
- Built - in bypass, with a small size and low heat generation.
- After starting is completed, it switches to the built - in contactor, resulting in low power consumption.
- When used in water pumps, the water output is the same as that under the power frequency.
- It has a simulation design, allowing the test of the control circuit without a load.

Multiple Starting Control Modes

Multiple starting modes are available to meet various load requirements. Users can select the appropriate starting mode according to their specific load conditions.

The SHR6E simplifies the installation and operation of the motor starting system, thereby reducing installation costs and shortening the installation time.

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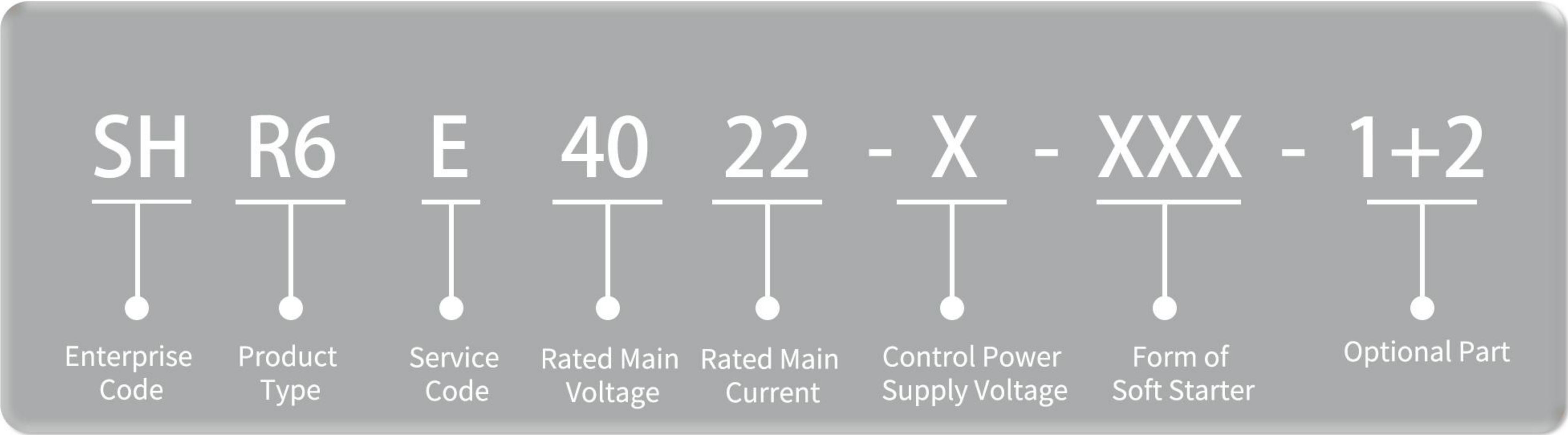
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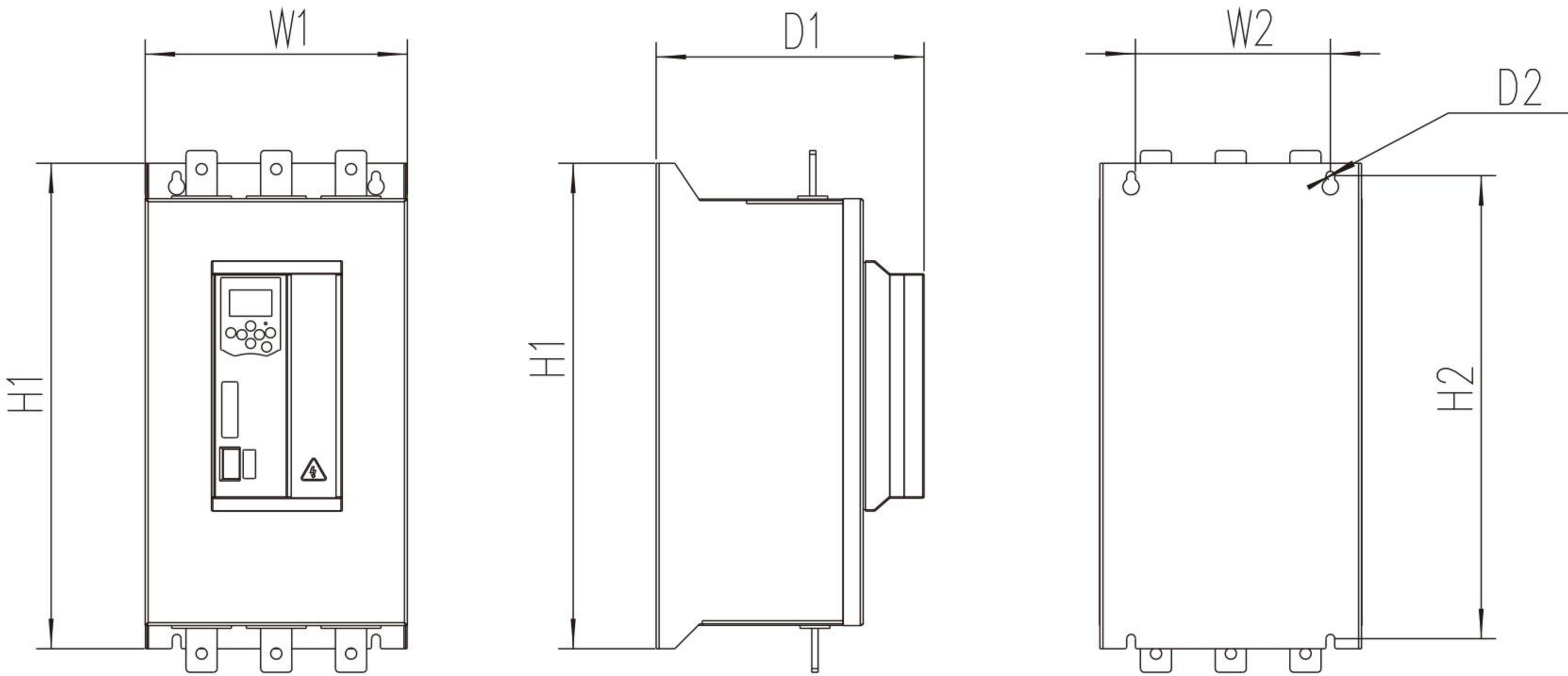
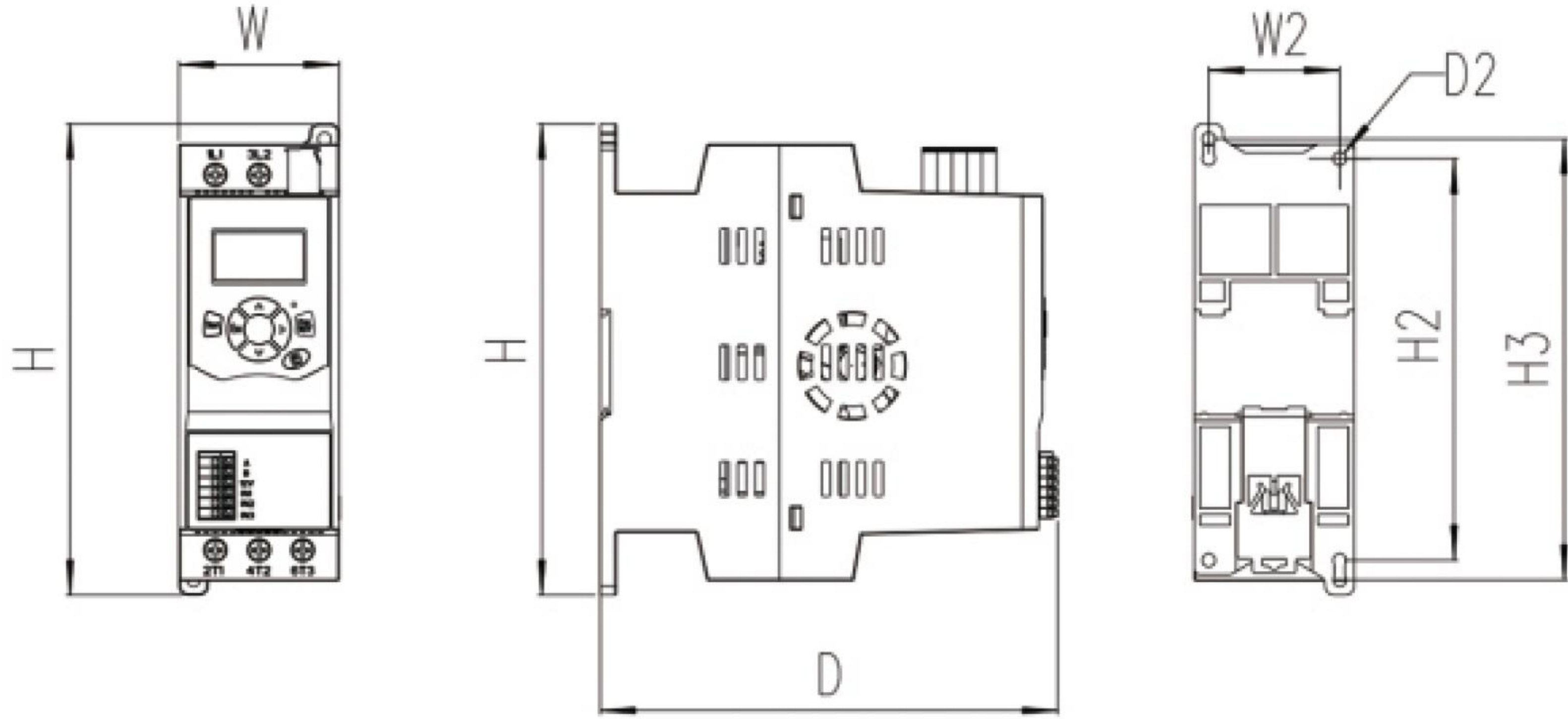
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Model Selection:



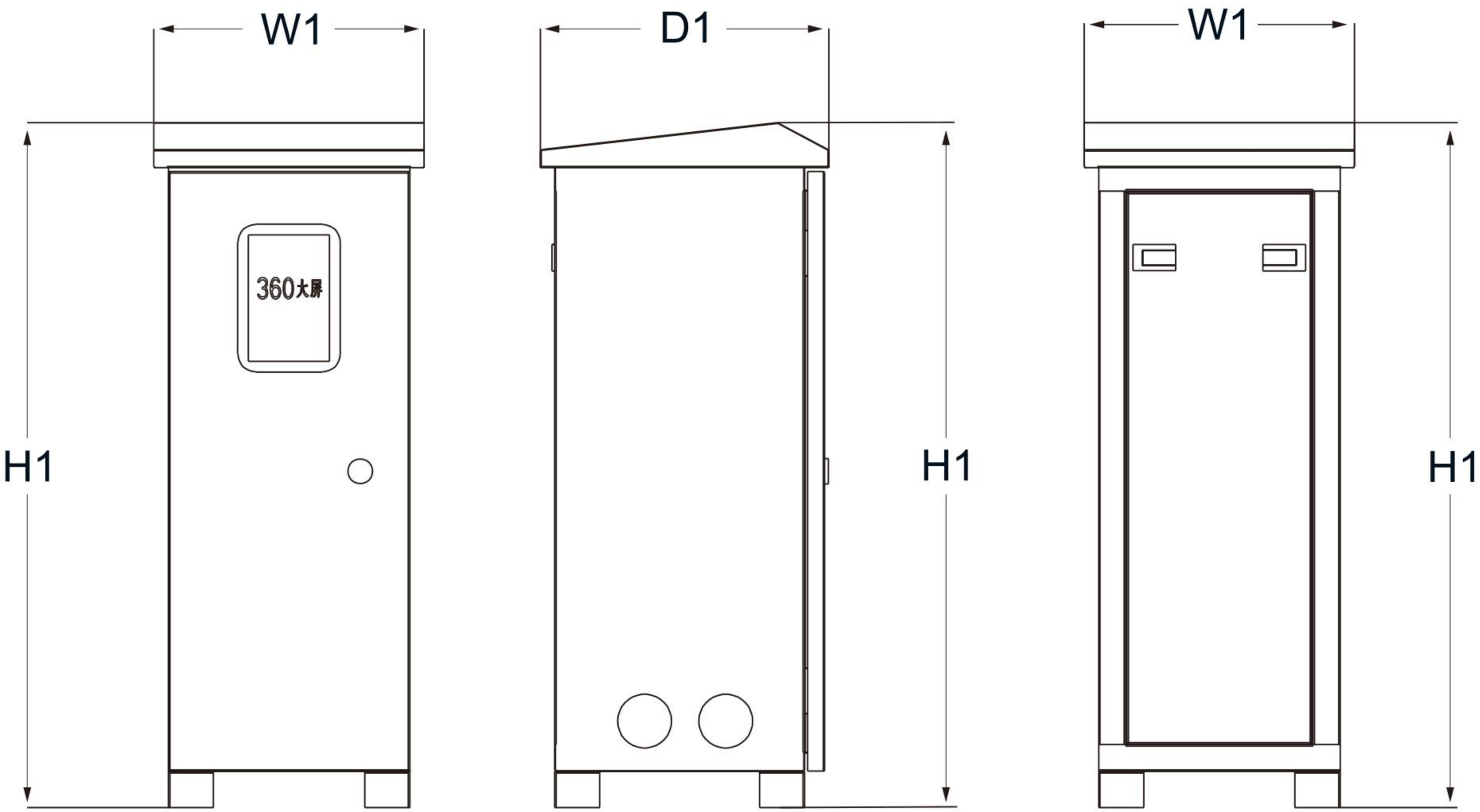
- Note:
- 1. Rated voltage of the main power supply: 22: 220V; 40: 400V;
 - 2. Rated current: 1.5~150A;
 - 3. Control power supply voltage: A: 100~240VAC; B: 24VDC;

Voltage 380-415V.			
Model	Current	Power	Size
SHR6E4012	12	5.5	162*55*157
SHR6E4016	16	7.5	162*55*157
SHR6E4022	22	11	162*55*157
SHR6E4030	30	15	162*55*157
SHR6E4037	37	18.5	250*105*160
SHR6E4044	44	22	250*105*160
SHR6E4060	60	30	250*105*160
SHR6E4074	74	37	250*105*160
SHR6E4090	90	45	300*136*180
SHR6E40110	110	55	300*136*180
SHR6E40150	150	75	300*136*180
SHR6E40180	180	90	390*210.5*215
SHR6E40220	220	110	390*210.5*215
SHR6E40230	230	115	390*210.5*215



Dimensions of the soft starter cabinet

Model	External dimension		
	H	W	D
5.5-15Kw	440	210	200
18.5-37Kw	760	300	320
45-75Kw	830	320	330
90-115Kw	1100	330	370



Function:



Selectable soft start and soft stop curves

- Voltage ramp starting
- Current limiting starting
- Free parking
- Timed soft parking

Expanded input and output options

- Remote control input
- Relay output
- RS485 communication output

Display feedback data

- Expandable operation panel
- English display

Customizable protection

- Input phase loss
- Output phase loss
- Running overload
- Starting overcurrent
- Running overcurrent
- Underload

Meet the connection requirements

Star connection or internal delta connection

Wiring diagram:

Conventional

Current range: 1.2A - 230A (rated)
Motor connection: External star or internal delta connection

Power Supply

Voltage (L1, L2, L3)
For SHR6E: 380VAC (±10%)
Power Supply Frequency: 30 - 70HZ

Input

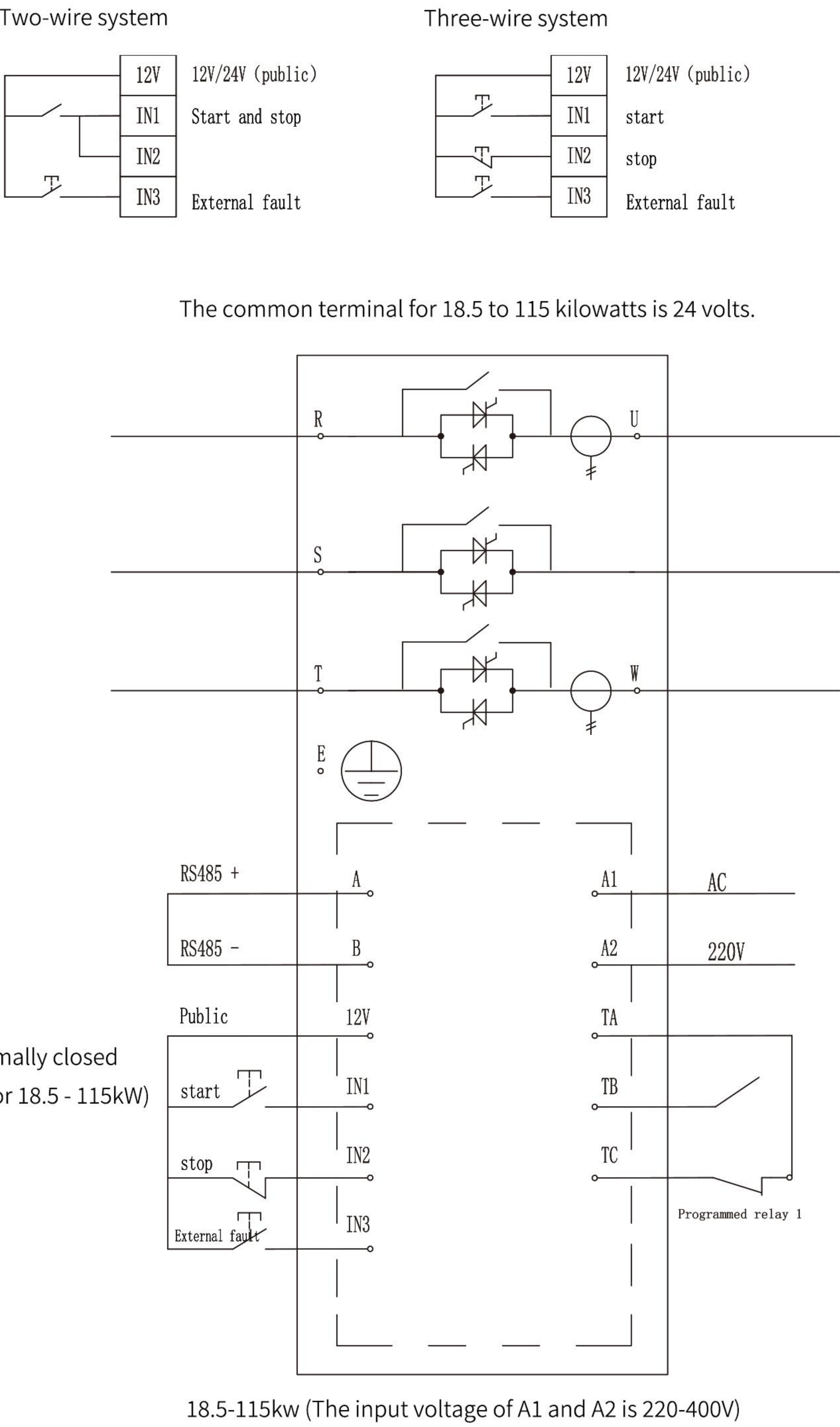
Input: Active 12VDC, approximately 8mA (for 0.37 - 15kW)
Active 24VDC, approximately 8mA (for 18.5 - 115kW)
Start: Normally open contact
Stop: Normally closed contact
Fault input: Normally open contact

Output

Relay output: 10A - 250VAC resistive circuit, 5A - 250VAC
Programmable relay 1 (TA1, TB1, TC1): Normally open or normally closed
Programmable relay 2 (TA2, TC2): Normally open (available for 18.5 - 115kW)

Programmable Outputs

Communication Outputs (485-, 485+): RS485 Communication



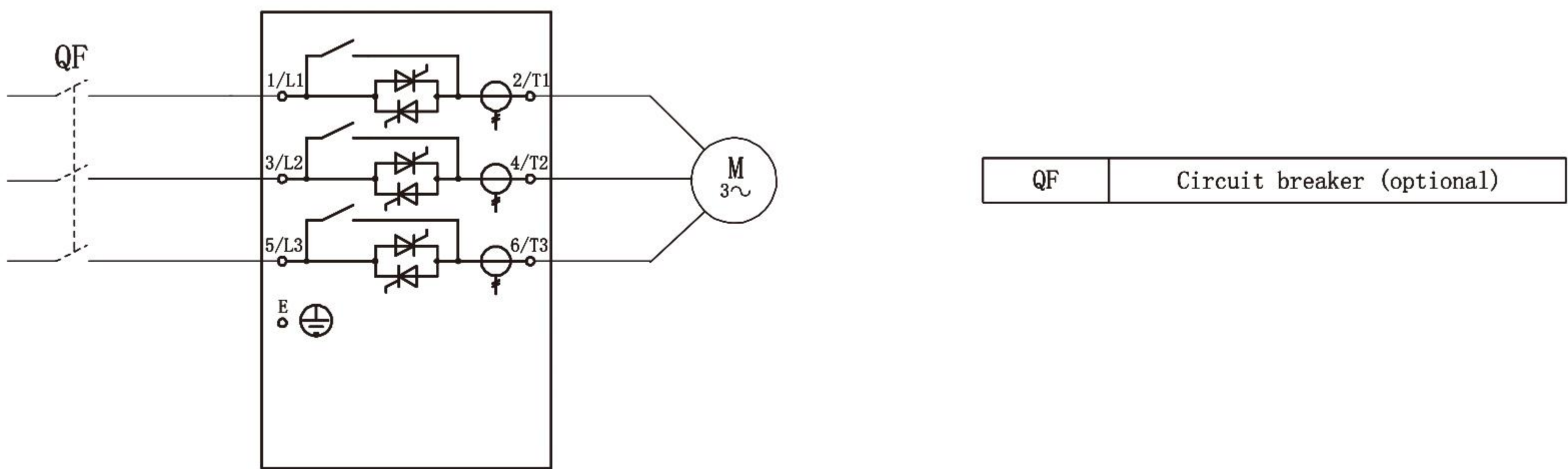
The common terminal for 18.5 to 115 kilowatts is 24 volts.

18.5-115kw (The input voltage of A1 and A2 is 220-400V)

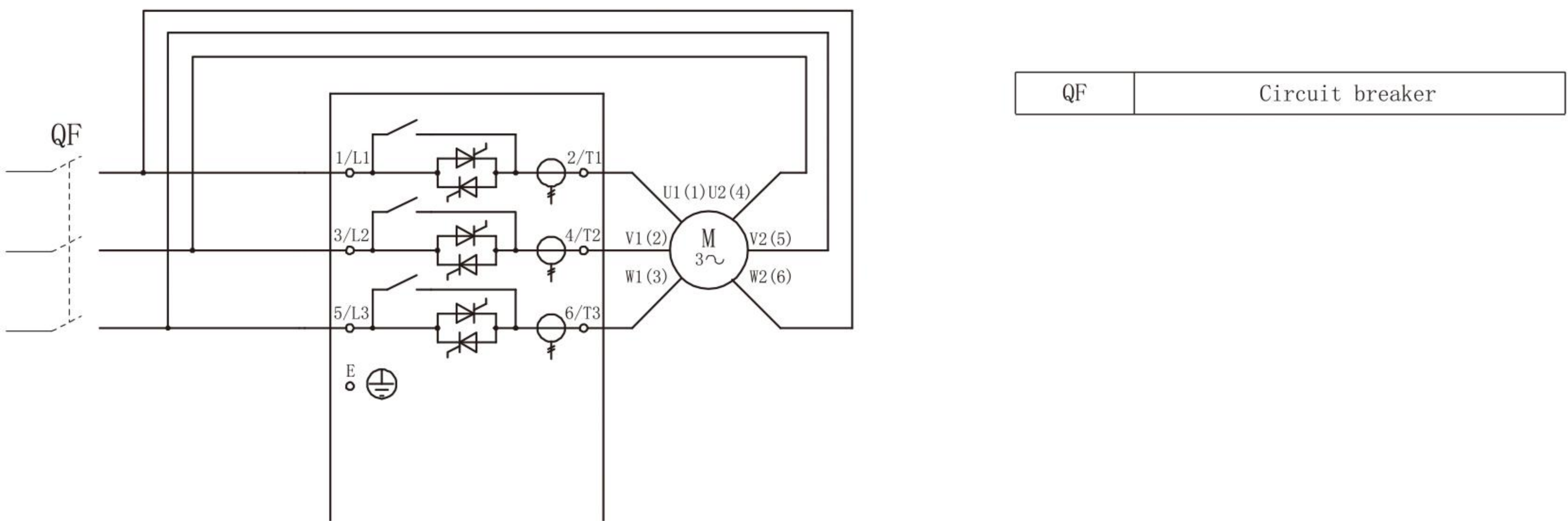
Motor connection:

The soft starter can be connected to the motor using the star connection method or the internal delta connection method (also known as the three - wire connection method and the six - wire connection method). If the internal delta connection method is used, input the rated current of the motor using parameter F01.

Star connection method, internal bypass



Delta connection method, internal bypass



Comparison among Soft Starter, Star-Delta Starter and Autotransformer Starter

Project	Soft Starter	Star-delta	Autotransformer
Overvoltage and undervoltage protection	Yes	None	None
Short circuit protection	Yes	Yes	The safety coefficient is low.
Overload protection	Yes	Yes	Yes
Input phase loss protection	Yes	None	None
Output phase loss protection	Yes	Yes	Yes
Underload protection	Yes	None	None
Starting mode	Multiple	One kind	One kind
485 communication	Yes	None	None
Convenient maintenance	Within 18 months	3 months	3 months
Convenient transportation	Small in size and light in weight	Small in size and light in weight	Extremely heavy and bulky
Display	English liquid crystal display	None	None
Cost performance ratio	It can be installed on the wall for small-power applications, and it has a higher cost performance ratio.		