



User Manual of SST Soft Starter



SHUEN,control and protect your motors.

Warning message



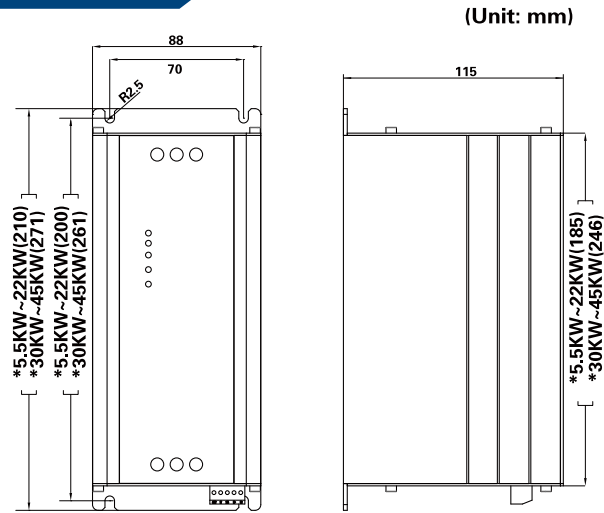
The product should be operated by qualified electricians as per safety specifications, including installation, pilot run and maintenance, etc;
The voltage used by the product is dangerous, which may cause serious injury or death of others. Prohibit touching terminal after electrifying the device or during operation. Although the device is switched off, voltage may still exist in output terminal;
The product should be used under rated specification of product. Before use, please check the accuracy of various parameters such as power, motor and frequency of product or device.
The product has passed insulation test before leaving factory. Incorrect megger test may damage product or shorten product life.

This product does not support overload protection. Please attach a heating relay or motor protector to ensure overload protection.

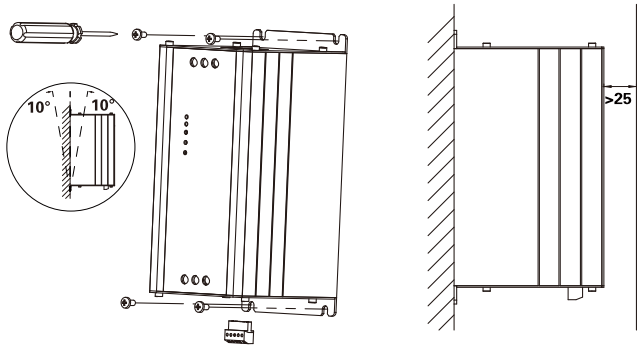
Electrical parameters

Standard	GB 14048.6-2008/IEC 60947-4-2: 2002	
Rated operation voltage	200~415V(-15%+10%)	
Max.length between soft starter and cable	300m	
Permissible ambient environment	Operation	-25℃~+60℃(when the ambient temperature is over 40℃,for each additional 1℃, the Soft Starter rated current is reduced by 1%.
	Storage	-40℃~+70℃
Protection grade	IP20	
Rated frequency	50/60Hz	
Permissible installation height	5000m(start to reduce capacity for above 1000m. For every 1000m increase, the Soft Starter rated current is reduced by 5%)	
Starting frequency	≈ 20 times/hour(class10 standard load)	
	It is recommended that the single start interval be longer than 3 min.	

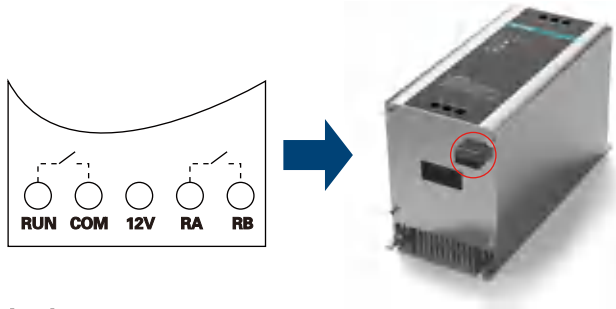
Product dimensions



Installation sketch



Terminal description



Major Loop

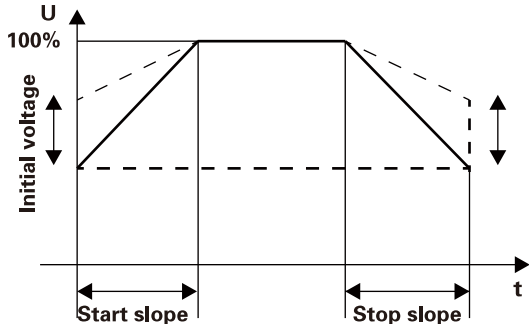
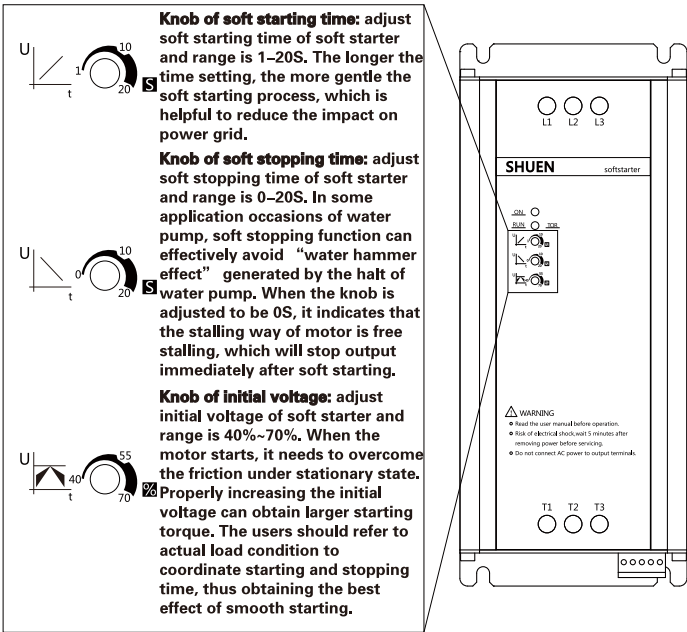
Terminal marking	Terminal name	Function description
L1、L2、L3	Mains input of major loop	Connect three-phase source
T1、T2、T3	Output connection of soft start	Connect three-phase motor

Control Loop

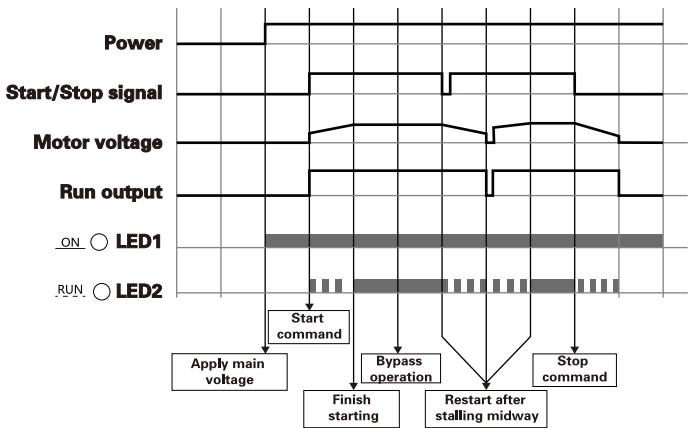
Terminal marking	Terminal name	Function description
RUN	Enable input	When closing run and com, start to operate When breaking run and com, motor slows down and halts
COM	Common port	run and common port at 12V
12V	Power terminal	Interior power output terminal at 12V, 300mA at maximum, prohibit overload
RA、RB	Indication of working status	Working status: relay output, normally open contact, close during operation, break if stall or fault, relay capacity 250V/AC 0.3A

Parameter setting

Panel parameters



Operation sequence diagram



Indicator light

Indicator light			
Run/On	Steady lighting	Flashing	Off
Steady lighting	Bypass operation	Input/output phase loss	Hardware failure
		Hardware failure	
Flashing	Soft start/soft stop in progress	Hardware failure	Hardware failure
Off	The device is ready for power on	Input/output phase loss	Soft start power failure or indicator light failure
		No motor connected	

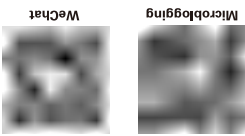
Power diagram

Model	230V/KW	400V/KW	500V/KW	Rated current A
SST-5R5	3	5.5	5.5	13
SST-7R5	4	7.5	7.5	17
SST-11	5.5	11	11	25
SST-15	7.5	15	15	32
SST-18	7.5	18.5	22	37
SST-22	11	22	30	45
SST-30	15	30	37	60
SST-37	18.5	37	45	75
SST-45	22	45	55	90

Wiring Parameter

Model	Rated power	Main Circuit Diameter	Main Circuit Tightening Torque	Control Circuit Diameter	Tightening Torque Control Circuit
	KW	GB Copper Core(mm²)	Lbf/inch	(mm²)	Lbf/inch
SST-5R5	5.5	2.5	10.6~13	0.64~1	2~2.2
SST-7R5	7.5	2.5	10.6~13	0.64~1	2~2.2
SST-11	11	4	10.6~13	0.64~1	2~2.2
SST-15	15	6	10.6~13	0.64~1	2~2.2
SST-18	18.5	10	10.6~13	0.64~1	2~2.2
SST-22	22	10	10.6~13	0.64~1	2~2.2
SST-30	30	16	18~22	0.64~1	2~2.2
SST-37	37	25	18~22	0.64~1	2~2.2
SST-45	45	35	18~22	0.64~1	2~2.2

Version : V03

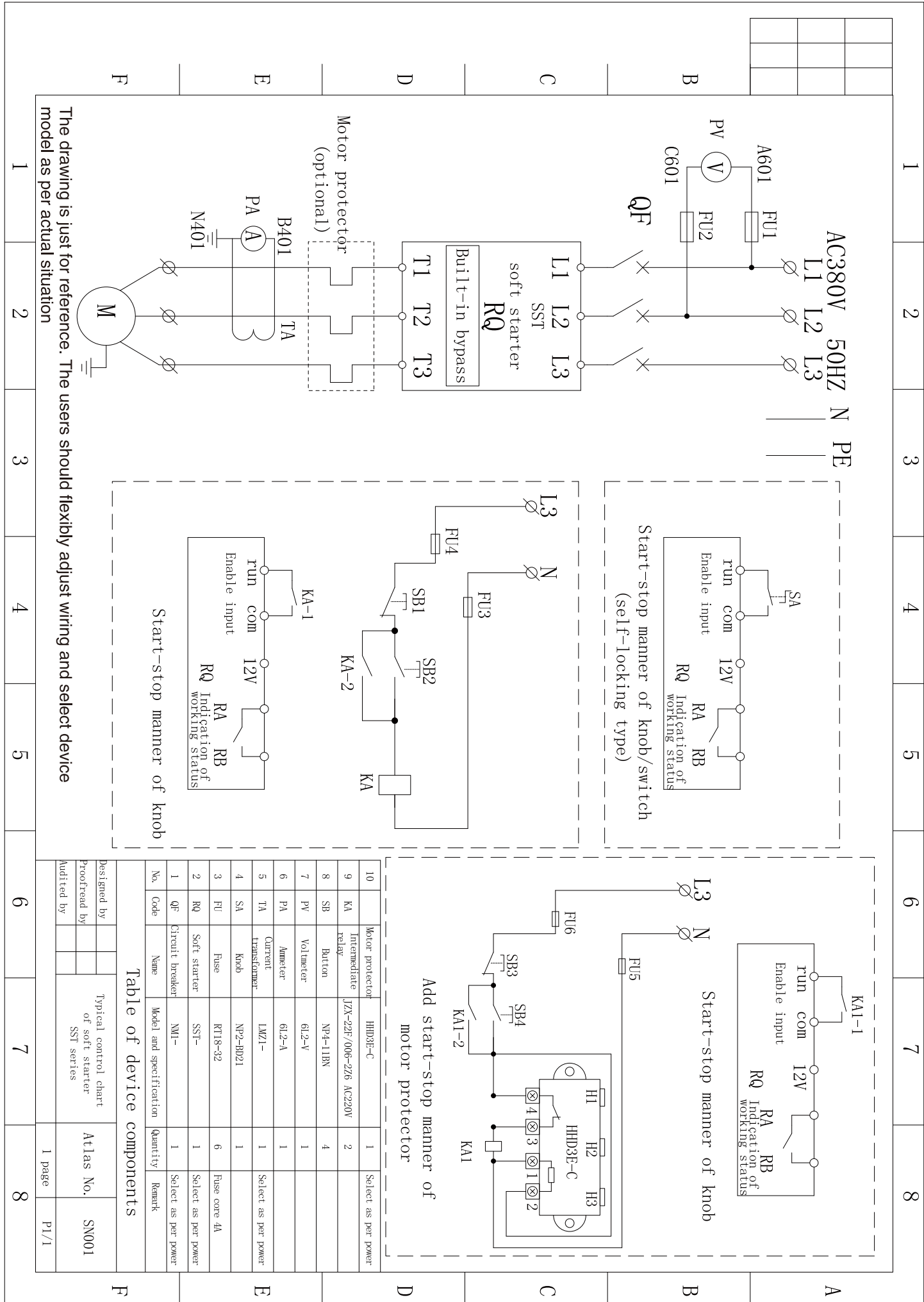


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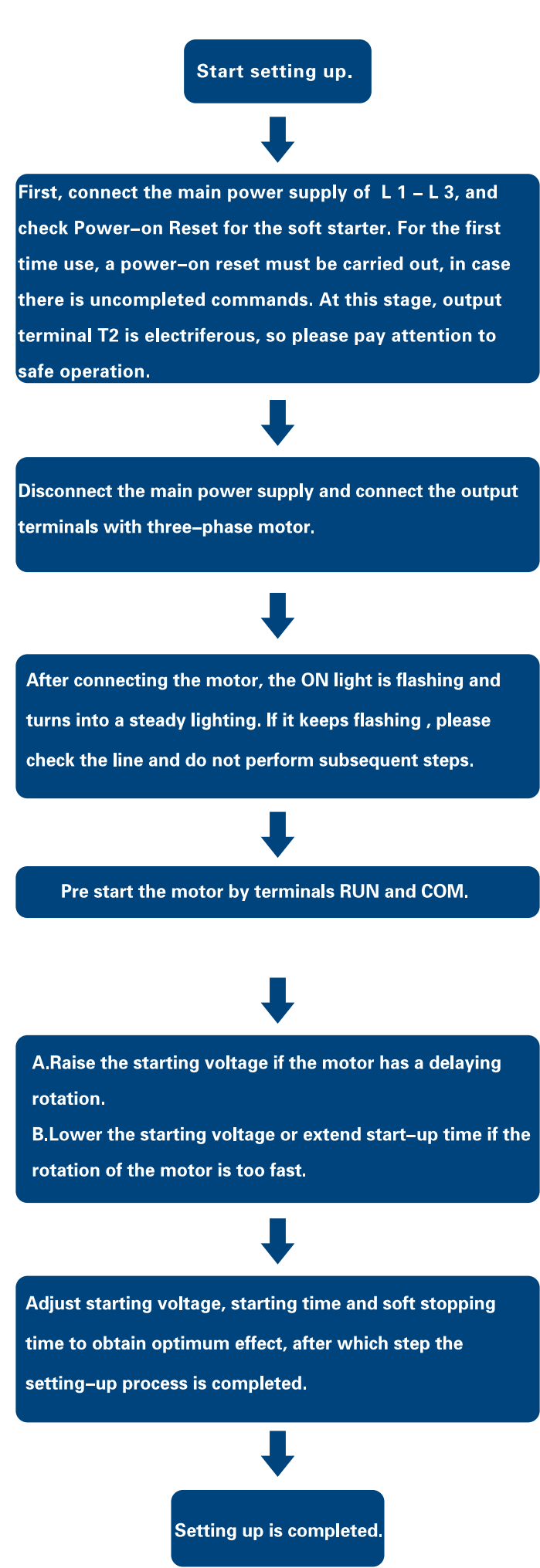


Please forward this user manual to the end user

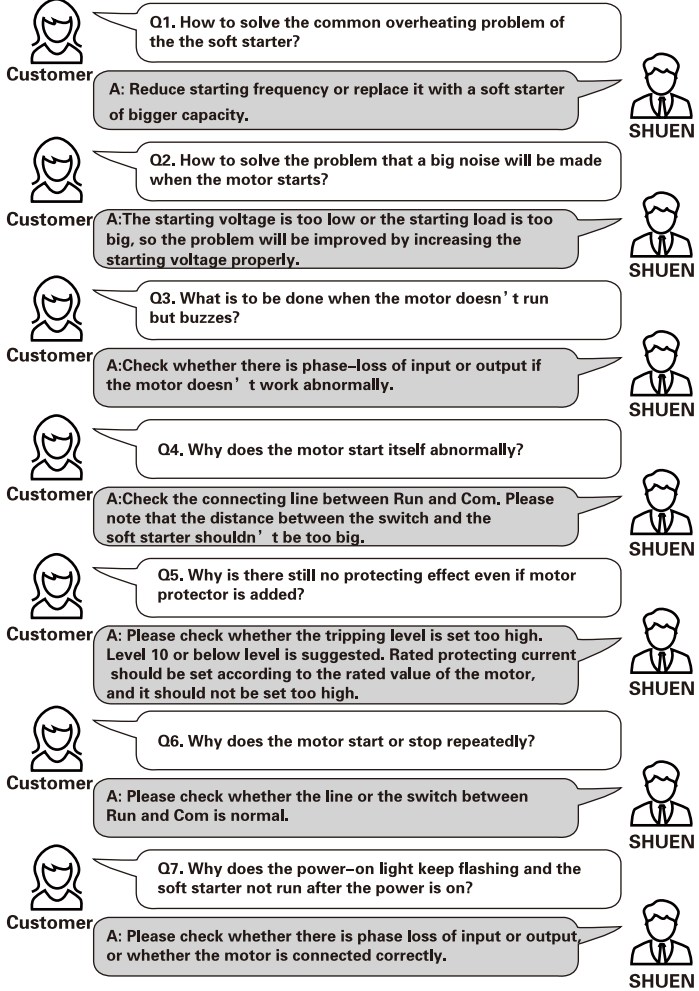
Wiring diagram



Setting-up process



FAQ



Warranty card



Related information

User name _____ Phone number _____

Address _____

Product model _____ Serial No. _____

Purchasing way _____ Purchasing time _____

Maintenance site _____ Invoice No. _____

Terms of no maintenance, return & exchange

Within warranty period, the situations caused by below reasons are beyond warranty scope:

(1)Product fault caused by users of violating the operation in User Manual;

(2)Product damage during transportation or caused by external forces;

(3)Product fault caused by users of repairing or remolding product arbitrarily without communication with manufacturer;

(4)Product fault caused by users of using product beyond standard application range;

(5)Product fault caused by users under poor service environment;

(6)Product damage caused by force majeure factors such as earthquake, fire, lightning stroke, abnormal voltage or other natural disasters, etc;

(7)Product marking such as nameplate, trademark and serial number are damaged or unidentified

Please keep product packaging after receiving the product in case of being required for return and exchange.