

## VH100 Intelligent small type On-line Motor Soft Starter

---



## User Manual

# VH100 Soft Start Operating Instructions

## Precautions

1. When the soft start input is energized, the output is energized with the electricity, do not operate while energized;
2. Should try to ensure that the motor power, specifications and this soft start matching;
3. Strictly prohibit the output of the soft starter in the (U.V.W) to the capacitor;
4. Input and output wires should be wrapped with insulating tape;
5. The soft starter enclosure must be reliably grounded;
6. When servicing the equipment, the input power must be disconnected first;
7. Internal circuit board with high voltage, non-professionals should not repair.

## Product Features

Under current protection



Over-current protection



Three-phase imbalance protection



Under voltage protection



Over-voltage protection



Three-phase AC Input



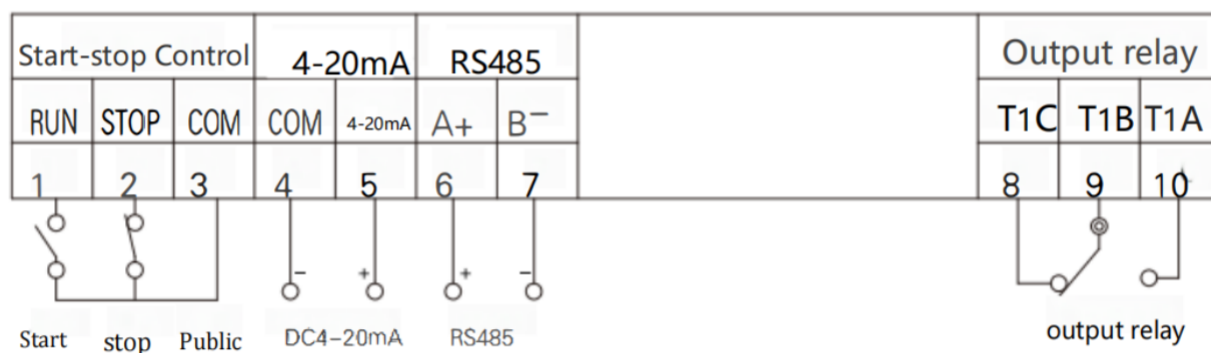
Product weight: 3kg



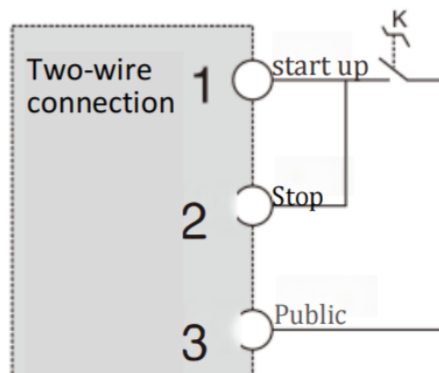
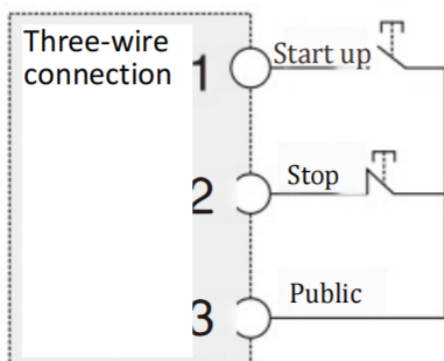
Panel cutout size: 97.4\*60.5mm(H\*W)

1. Press the PRG key to enter the parameter group, and press the up-down arrow key to Switch the parameter group.
2. Parameter modification, press the first step to enter the corresponding parameter, press the PRG key to enter the parameter, press the up-down arrow key to modify the parameter value, press PRG key to save the parameter after modification is completed.  
Press PRG again to return to the main interface.
3. Press the Run key to start the soft starter.
4. Press the Stop key to stop the soft starter.
5. Press ESC key to check the fault record in standby state.
6. Press and hold down the up arrow key to clear the fault record.
7. Long press down arrow key to restore factory settings.

## Secondary Wiring



★Note: Terminals 1 - 7 provide power internally and only require external access to the switching quantity, not to the power supply.



# Product Size

**No contactor required**  
**Small volume**  
**Easy transportation**  
**and installation**

**Note:**

If you need to install the panel to the cabinet door, please contact customer service, we will free gift adapter and 1 meter extension cable

Panel cutout size:  
97.4\*60.5mm(H\*W)

## VH 100



Mounting holes: 63\*248mm M4



## VH100 Soft Start Operating Instructions

No.	Function Name	Setting Range	Default	Permissions	Modbus Address
P00	Control Mode	0: Keyboard Control 1: External Control 2: Communication Control	1: External Control	Read And Write	0
P01	Starting Mode	0: Voltage Ramp Start 1: Current Limit Start	0: Voltage Ramp Start	Read And Write	1
P02	Starting Current Limit Value	50%~ 600%	300%	Read And Write	2
P03	Starting Voltage Percentage	30%~80%	30%	Read Only	3
P04	Start Time	1S~20S	10S	Read Only	4
P05	Soft Stop Time	0S ~ 60S	0S	Read And Write	5
P06	Starting Overcurrent Protection Current	50%~601 % 601% Means Off	500%	Read And Write	6
P07	Starting Overcurrent Protection Time	0~120S	2S	Read And Write	7
P08	Running Overcurrent Protection Current	50%~601 % 601% Means Off	200%	Read And Write	8
P09	Running Overcurrent Protection Time 0	0~999S	2S	Read And Write	9
P10	Undercurrent Protection Current	10%~100 % 100% Means Off	50%	Read And Write	10
P11	Undercurrent Protection Time	0~120S	5S	Read And Write	11
P12	Degree Of Imbalance	20%~100 % 100% Means Off	40%	Read And Write	12
P13	Unbalance Protection Time	0~120S	5S	Read And Write	13
P14	Overvoltage Protection Multiple	100%~140 % 100% Means Off	120%	Read And Write	14
P15	Overvoltage Protection Time 0S ~ 1 20S	0~120S	5S	Read And Write	15
P16	Undervoltage Protection Multiple	50%~100 % 100% Means Off	80%	Read And Write	16
P17	Undervoltage Protection Time	0~120S	5S	Read And Write	17
P18	Output Relay Function	0: Fault 1: Standby 2:Run 3:Bypass 4: Soft Start 5: Soft Stop	0: Fault	Read And Write	18
P19	Output Relay Delay	0~999S	0S	Read And Write	19
P20	Motor Rated Current 1~ 500A	1~500A	30A	Read And Write	20
P21	Correspondence Address	1~64	1	Read And Write	21

	Function Name	Setting Range	Default	Permissions	Modbus Address
P22	Communication Baud Rate	0:2400 1:4800 2:9600 3:19200	2: 9600	Read And Write	22
P23	Software Version			Read Only	23
P24	Phase A Current Calibration Value	10%-1000%	100%	Read And Write	24
P25	Phase B Current Calibration Value	10%-1000%	100%	Read And Write	25
P26	Phase C Current Calibration Value	10%-1000%	100%	Read And Write	26
P27	Input Voltage Calibration	10%-1000%	100%	Read And Write	27
P28	4-20Ma Range	100%-400%	200%	Read And Write	28
P29	4- 20Ma Lower Limit	0%-150%	20%	Read And Write	29
P30	4-20Ma Upper Limit	0%-150%	100%	Read And Write	30
P31	Phase Sequence Protection	0: No Protection 1: Forward Sequence 2:Reverse Phase Sequence	0: No protection	Read And Write	31
P32	Overheat Protection Switch	0: Off 1:Open	1:open	Read And Write	32
P33	Input Phase Loss Protection Switch	0: Off 1:Open	1:open	Read And Write	33
P34	Output Phase Loss Protection	0: Off 1:Open	0: off	Read And Write	34
	Main Control Software Version			Read Only	100
	Soft Start State	0:Standby 1:Soft Start 2:Running 3:Soft Stop 5:Failure			101
	Current Fault	0: No Faults 1: Input Phase Loss 2: Output Phase Loss 3: Starting Overcurrent 4: Running Overcurrent 5: Undercurrent 6: Current Unbalance 7: Phase Sequence Protection 8: Soft Start Overheating Protection			102