

Single phase low-power Motor Softstarter; Simple Operation; 1-8KW

Feature

This module is compatible with 220V and 380V live lines, frequency 50-60Hz, softstart time is 30 seconds adjustable (time rise: 0-220V). When the main power supply is 220V, the starting voltage is 0-110V adjustable and slowly starts to the rated voltage 220V; when the main power supply is 380V, the starting voltage is 0-180V adjustable and slowly starts to the rated voltage 380V. There are two ways to use: 1. when the switch is "ON", the main power supply is powered on and softstart works. 2. Using external switch to control. Softstart works when switch is "ON" and stops when switch is "OFF".

Uses

Pumps, fans, cranes, soft boot of ordinary single-phase motor softstart; replace the variable autotransformer, soft start of frequency inverter, etc.. Wiring is simple, and bypass contactor is not needed, economical and practical with powerful functions.



Ordering Options

SSR	40WA	R1	S110	
				Radiator
				S110+F80: 1KW-6KW
				DS1+F90: 8KW
				R1 has soft start but no soft stop;
				R2 has both soft start and soft stop (start and stop at the same voltage value)
				20WA(1KW); 40WA(1.5KW); 60WA(2KW);
				100WA(4KW); 150WA(6KW); 200WA(8KW)
				Single phase motor soft-start module

Note:

1. When using or debugging it (do not debug it with no load), please don't adjust the softstart time to minimum (large starting current would burn the module).
2. No extra voltage can be added to the switch.
3. R1 is default, unless other requirements specified.
4. This softstart module should be equipped with heatsinks.
5. Only the built-in switch on the module can be used for soft stop.
6. In case the indicator light doesn't give off light, remove the short circuit terminal first, and then power on.
7. It cannot be used for the hanging-type motor.

Aluminum substrate: SSR- 20WA-R(1KW), SSR- 40WA-R(1.5KW).

Copper substrate: SSR-60WA-R(2KW), SSR-100WA-R(4KW) SSR-150WA-R(6KW), SSR-200WA-R(8KW).

When the starting potentiometer is set to half, it corresponds to the starting voltage of 110V, The maximum time of soft start potentiometer is 30 seconds, corresponding to the whole 220V, For example: when all is adjusted to minimum: starting voltage is 0V and softstart is 0 seconds (0 second not recommended)

Power supply 220V: when all is adjusted to be half, starting voltage is 55V and softstart time is about 22 seconds

Power supply 380V: when all is adjusted to be half, starting voltage is 95V and startstart time is about 22 seconds

Power supply 220V: when all is adjusted to be maximum, starting voltage from 110V to 220V takes 15 seconds

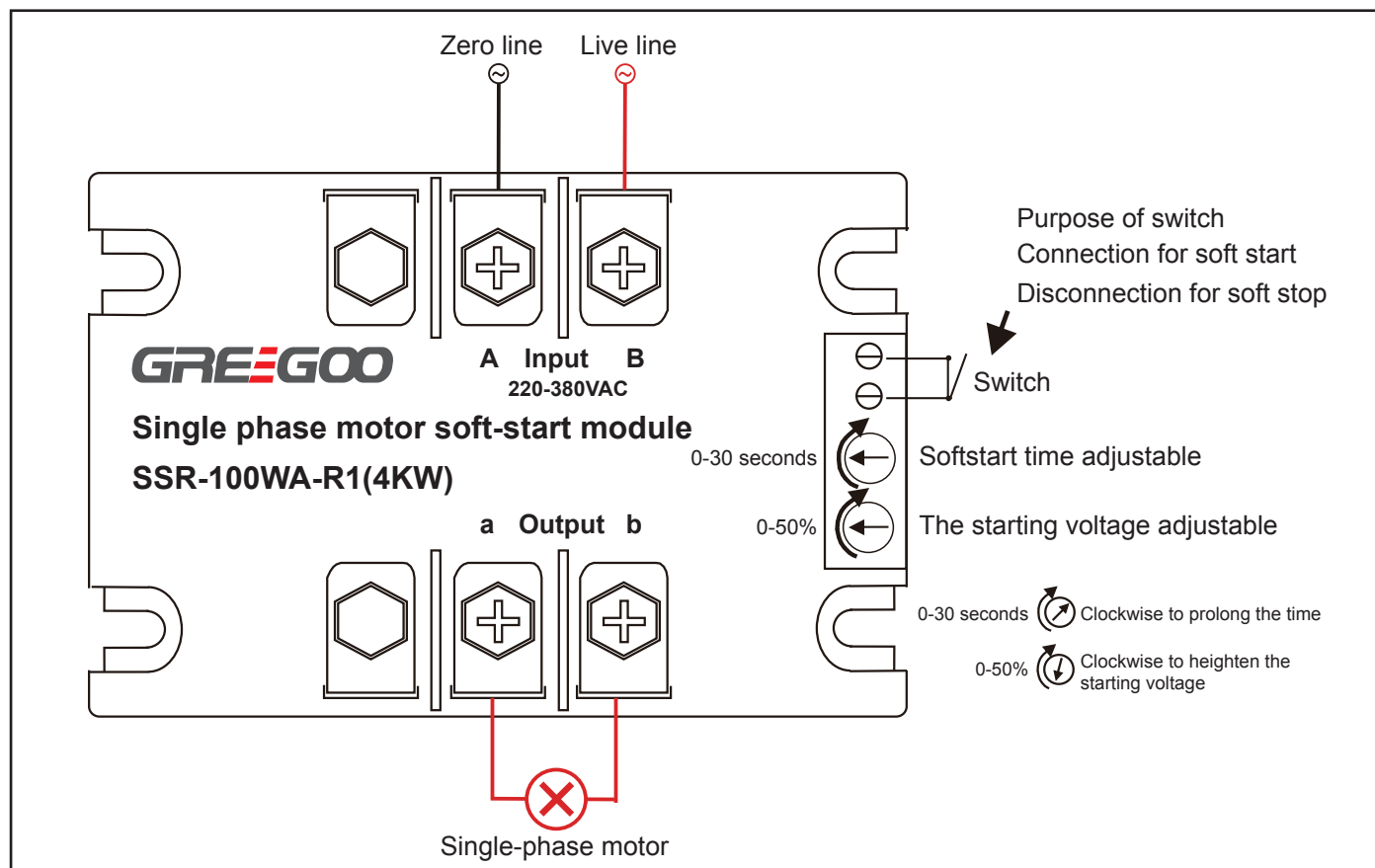
Power supply 380V: when all is adjusted to be maximum, starting voltage from 190V to 380V takes 15 seconds

Selection of allowance recommended: 2KW using SSR-60WA-R, the above nominal power is 220V, 380V.

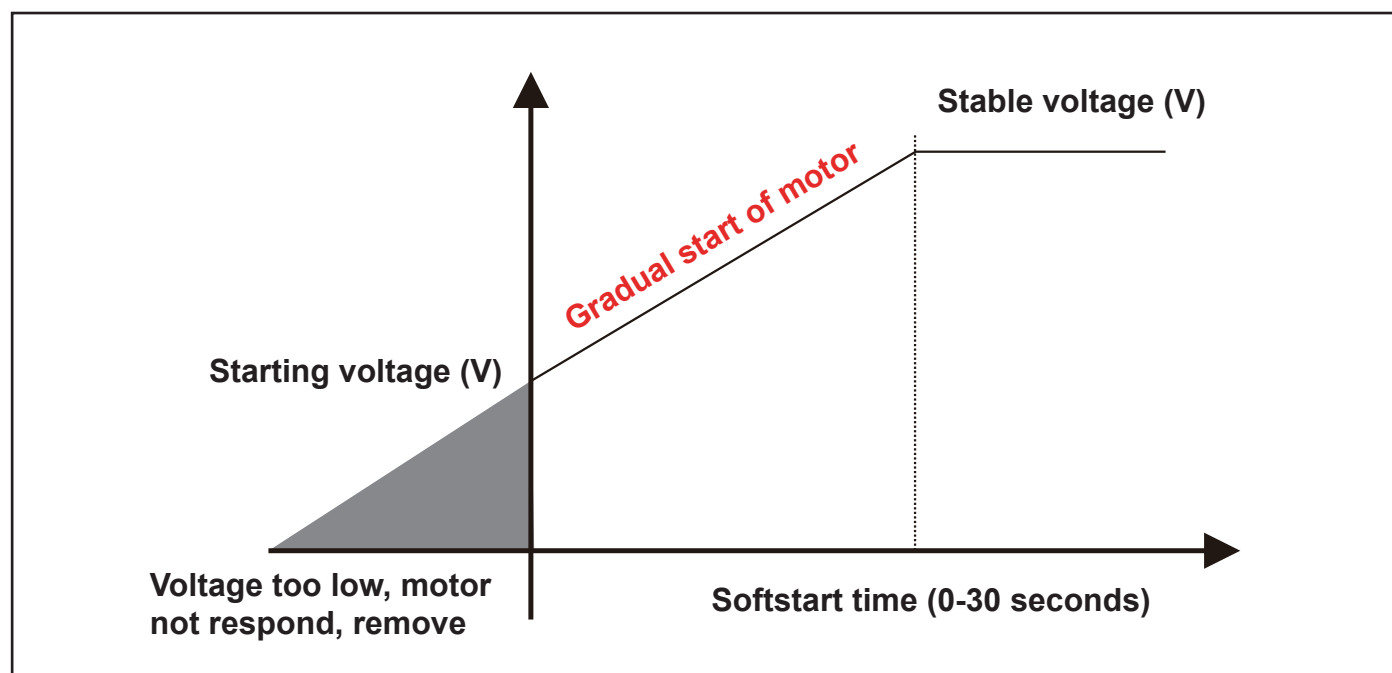
When double fire lines, the power can be 1.5 times.

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Wiring diagram (compatible to 220V/380V)

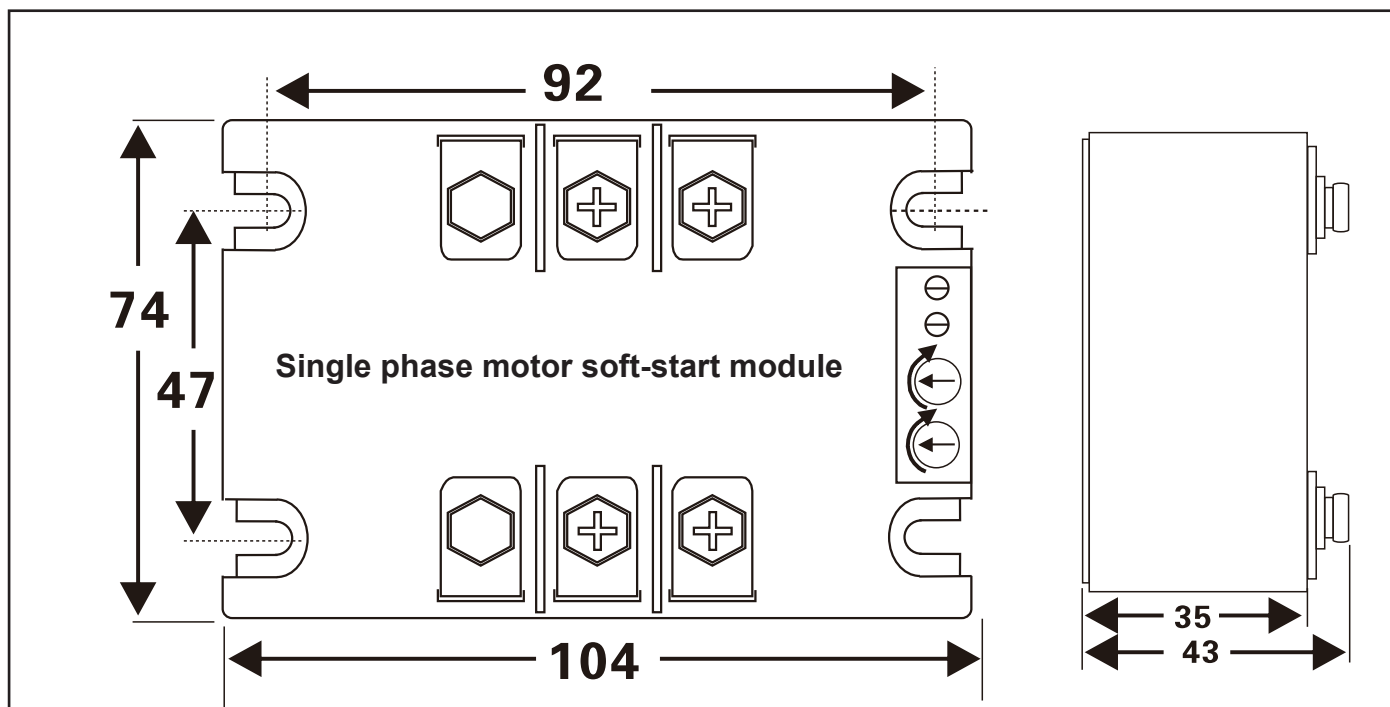


Schematics for single phase motor softstart module

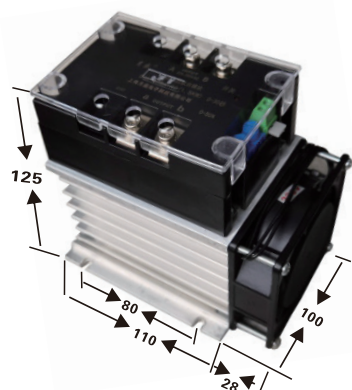


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Dimension



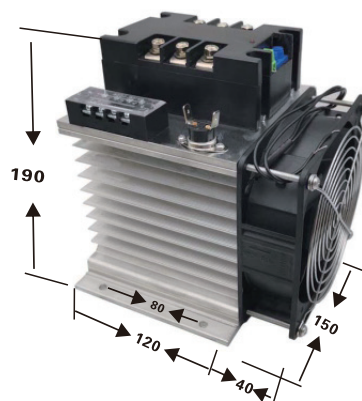
Models equipped with radiator and fan (default 220V for single phase motor, default 380V for double live lines). Low-power motor can be without radiator but should be installed on the metal board.



S110 radiator (weight: 450g)+fan



S150 radiator (weight: 720g)+fan



U120 radiator (weight: 1.6kg)+fan