

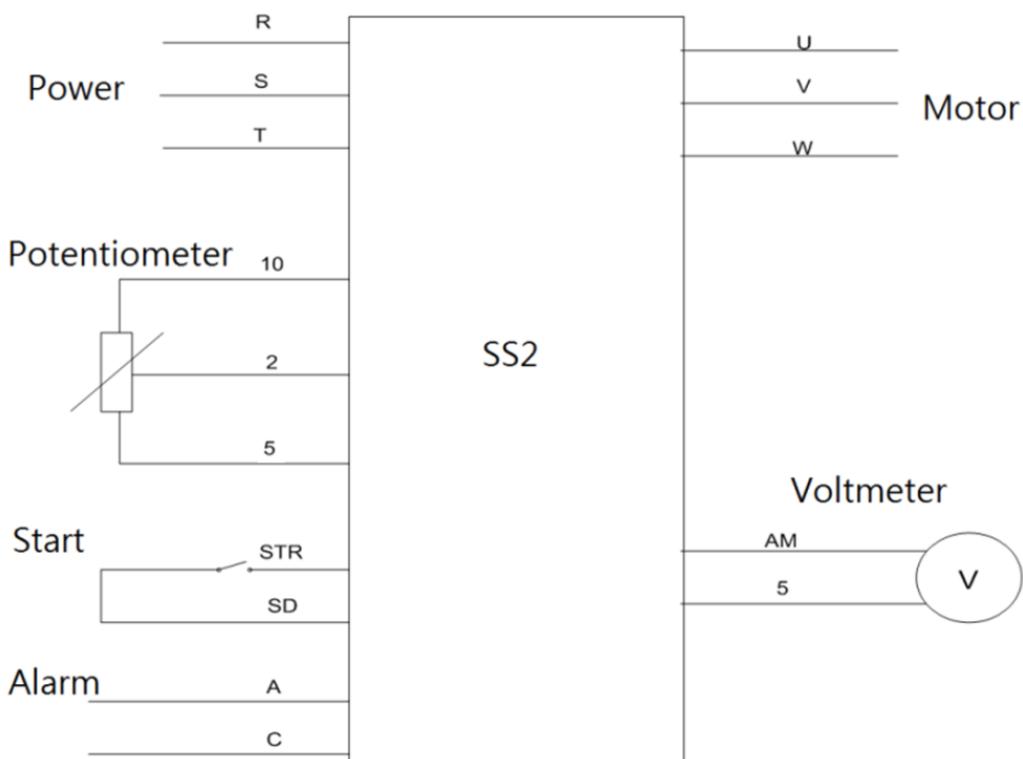
## SS2 and SF-G on a grinder



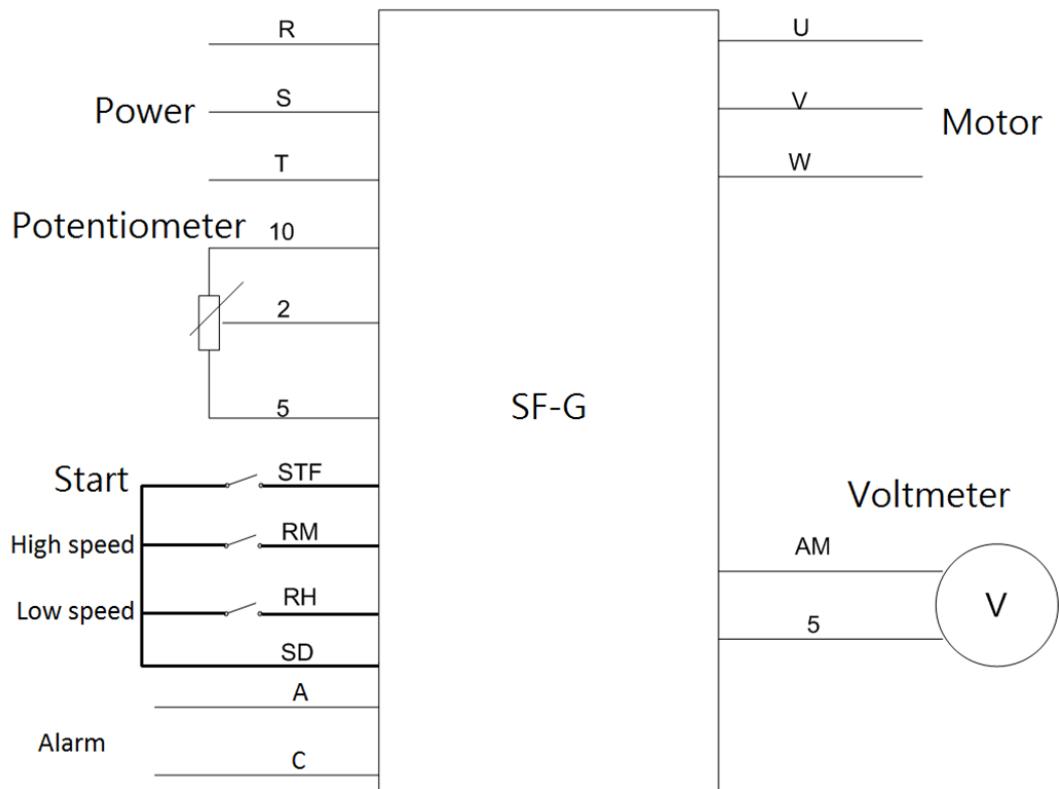
Requirements:

1. Two inverters, one for grind bits and one for platform spinning, we chose 3.7KW SS2 and 11KW SF-G.
2. SS2: A potentiometer to change frequency. An analog voltmeter to show current voltage, an alarm signal.
3. SF-G: A potentiometer and a push button to change frequency, low speed 0~30Hz, high speed 0~50Hz. An analog voltmeter to show current voltage, an alarm signal.

Wiring diagram:



The potentiometer is linked to **10** and **2** terminal which the frequency change function is built in. We chose the reverse STR button for start for the position of the motor, this can also be done by switching two of **U/V/W** power lines. The voltmeter function is built in on terminal **5 AM**.



The high speed low speed switch is built in on terminal RH RM, which is set in P.5 P.6.

Photo:

Parameters changed:

SS2

Number	Name	Setting range	Default value	Set value
P.30	Brake function	0:regeneration rate 3%,P.70 canceled	0	1
		1:regeneration rate P.70 %		
P.70	Regeneration rate	0~60%	0	18%
P.19	Base voltage	0~1000V,99999	99999	380V
P.79	Operation mode	0~8	0	2
P.54	FM/AM terminal function	0~5	0	5

We increased the brake to 18% for more efficient decelerating. And set P54 to 5 which output analog signal via frequency.

## SF-G

Number	Name	Setting range	Default value	Set value
P.5	Second speed(High)	0~400Hz	30Hz	50Hz
P.6	Third speed(low)	0~400Hz	10Hz	30Hz
P.54	FM/ AM terminal function	0~5	0	5
P.240	Extra frequency option	0~4	0	3
P.79	Operation mode	0~8	0	2
P.73	Input voltage range	0(0~5V) , 1(0~10V)	0	1
P.19	Base voltage	0~1000V,99999	99999	380
P.194	2-5 minimum input signal frequency reference	0~60Hz	0Hz	0Hz
P.195	2-5 Maximum input signal frequency reference	0~400Hz	50Hz/60Hz	50Hz

Beyond setting the high and low frequency, we set parameter P.240 to 3 which change the operating frequency to main frequency **minus** 2-5 signal. Then after setting the P.194 P.195 signal reference, when turning the potentiometer, it range from 0~50Hz.