

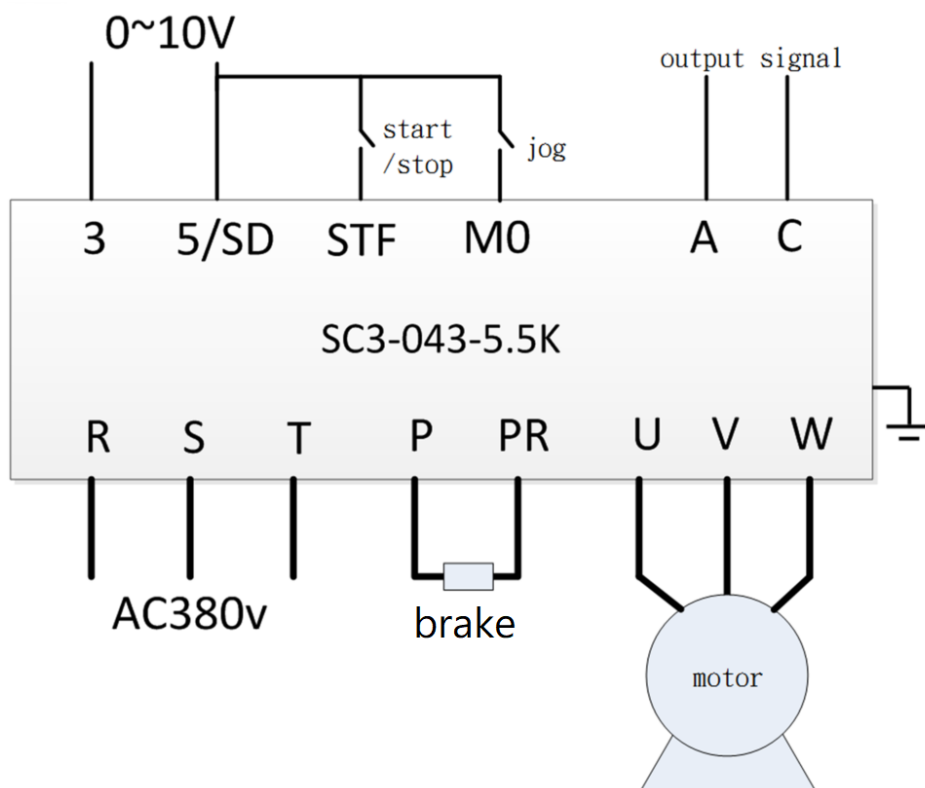
SC3 on a circular knitting machine



Requirements:

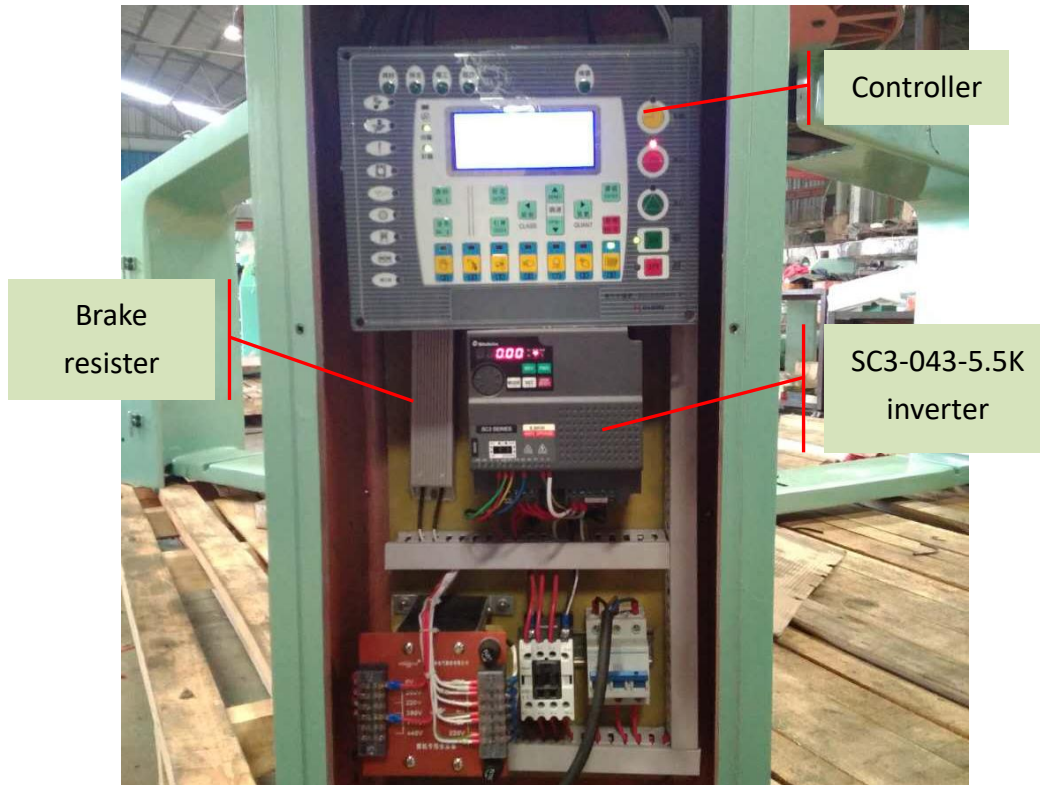
1. There is a controller sending 0 to 10 volts signal to control the frequency.
2. One push button for jog, one for start/stop.
3. Output a signal when operating.

Wiring diagram:



The 0 to 10 volts signal goes through terminal 3 and 5/SD, the start/stop function is built in on STF terminal, and set parameter P.80 on M0 for jog, set parameter P.85 for terminal A C to output signal.

Photo:



Parameters changed:

Number	Name	Setting range	Default value	Set value
P . 7	Acceleration time	Model 3.7K and under : 0 ~ 360.00s/0 ~ 3600.0s	5	1
		Model 5.5K : 0 ~ 360.00s/0 ~ 3600.0s		
P . 8	Deceleration time	Model 3.7K and under : 0 ~ 360.00s/0 ~ 3600.0s	5	1
		Model 5.5K : 0 ~ 360.00s/0 ~ 3600.0s		
P . 15	JOG frequency	0 ~ 650.00Hz	5	3
P . 30	Brake function	0 : regeneration rate 3%, P.70 canceled	0	1
		1 : regeneration rate P.70%		
P . 39	Max frequency (4-5 terminal signal input)	50Hz : 1.00 ~ 650.00Hz	50/60	70
		60Hz : 1.00 ~ 650.00Hz		
P . 70	Regeneration rate	0 ~ 30.0%	0%	6
P . 79	Operation mode	0~8	0	2
P . 80	Multi-function terminal (M0 function)	0~45	2	9
P . 85	Output relay function	0~18	5	0

For this application, customer requires fast accelerating and decelerating, so beyond setting **P.7 P.8**, we need to increase the brake, which is set **P.30=1** to enable the **P.70** function, then set **P.70** to 6%, then we set the max frequency and JOG frequency. We only use the terminals to control so **P.79** is set to 2 which disable keypad commands. We use **M0** as jog so set **P.80 =9**, and we output a signal when running so set **P.85=0**.