

BRUSHLESS SERVO MOTOR
electrically isolated I2C interface

Overview SMC (Sewing Motor Controller)

Extension for cheap chinese brushless sewingmachine motor to control speed, start/stop, direction, etc.

This Servomotor is available with 550W or 750W and could be used as a replacement for the motor in mini lathe like Rotwerk EDM300 and similar machines.



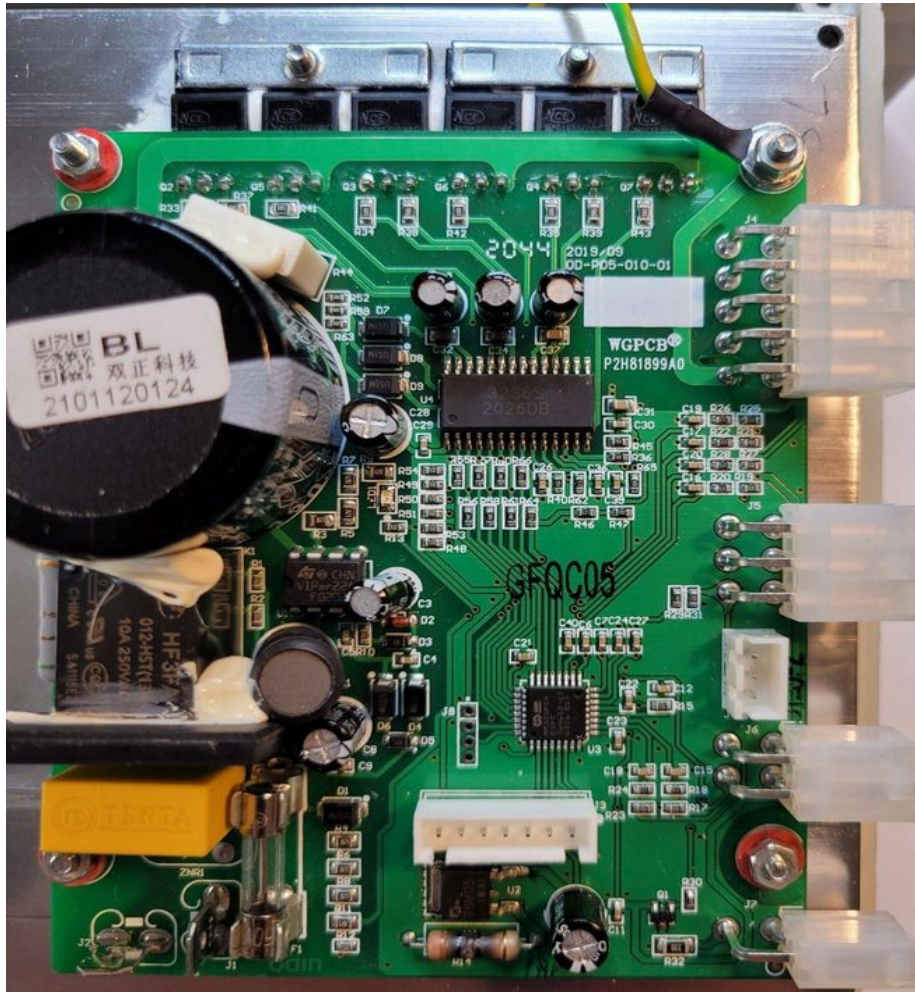
https://de.aliexpress.com/item/1005003090904992.html?spm=a2g0o.store_pc_allProduct.8148356.1.15fa6fc5JvWeOf

search: „brushless servo motor 550W“ at Aliexpress or Ebay

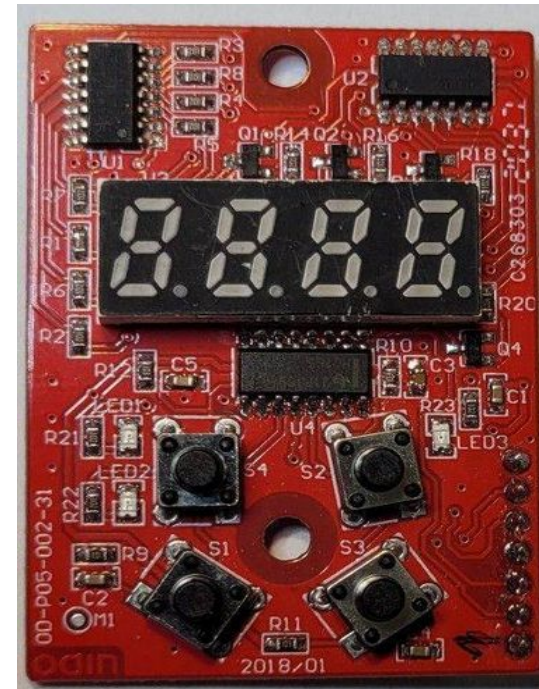
Features of ISO I2C Interface

- ▶ electrically isolated from the mains voltage on SMC controllerboard
- ▶ no changes on Controllerboard or Panelboard needed
- ▶ can be installed in the housing on existing attachments
- ▶ I2C speedcontrol
- ▶ I2C start/stop control
- ▶ I2C rotation direction control
- ▶ I2C temperature control
- ▶ complete configuration of the SMC controller via I2C
- ▶ securityswitch input for emergency stop button
- ▶ opt. NTC temperature control

Mainboard and Panelboard

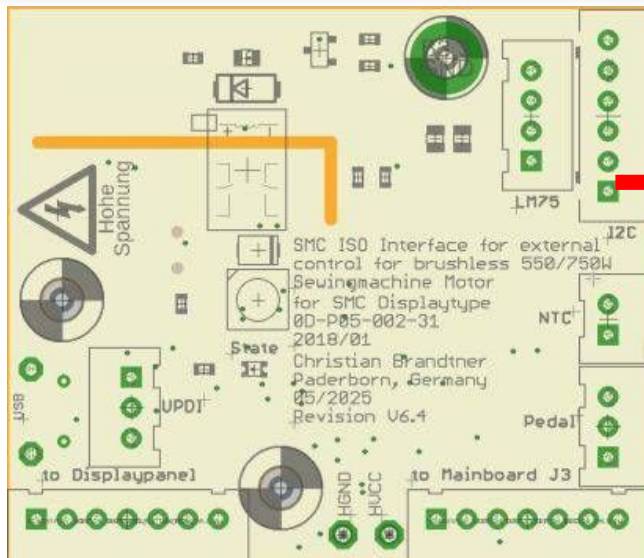


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Isolated I2C Interface



I2C



Pedal

Display,Buttons

Display,Buttons



Lathe Panel, ELS, whatever frontend, connected over I2C