

3-line-Control Mode 1 Setting Guide

A typical application scenario is to use of 3 switches to control the motor rotating

A #1 momentary button switch is used to control start forward run

A #2 momentary button switch is used to control start reverse run

A #3 button switch is used to stop running

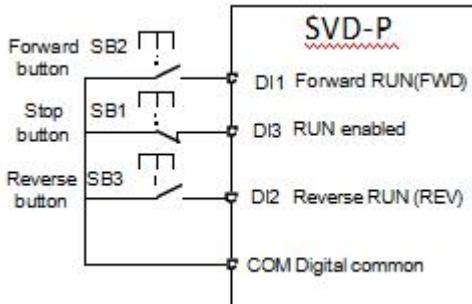
Step 1. Find the control terminal by opening button cover



Fig.1 Open the lid, find the digital input terminals (DI1, DI2... DI5).

Step 2. Wiring

1).Recommend connect the 3 momentary button switch to the control terminals as follow:



Wiring diagram 2

Step 3. Set the function codes as follow:

3.1 Select control source

P0.02=1 to select control terminals as running instruction source .

3.2 Define control terminal function

P4-00 = 1 DI1 used as Forward run start terminal

P4-01= 2 DI2 used as Reverse run start terminal

P4.02= 3 DI3 used as Stop terminal of 3-line-control operating mode

3. Select operating mode

P4-11 = 2 (Three-line control mode #1)

then you can have below logic table:

DI1 Button 1(SB2) status	DI2 Button 2 (SB3) status	DI3 Button 3(SB1) status	Motor Status
X	X	OPEN	STOP
Push Trigger <input type="checkbox"/>	Open	Close	Start Forward Run
Open	Push Trigger <input type="checkbox"/>	Close	Start Reverse Run

If SB1 is ON, the AC drive instructs forward rotation when SB2 is pressed to be ON and instructs reverse rotation when SB3 is pressed to be ON. The AC drive stops immediately after SB1 becomes OFF. During normal startup and running, SB1 must remain ON. The AC drive's running state is determined by the final actions on SB1, SB2 and SB3.

If Reverse run not needed, Button 2 could be omitted.

Simple switch control logic can be implemented by 2 line control mode , see simple switch control setting guide for detail .

Hopefully helps , feel free to contact us if anything else we can help .