

SJT-POBK-V1.3 Instructions for brake power board

1. Terminal Definition

Table 1 Description of the interface of the brake power board

Plug-in	Port	Terminal Number	Illustrate
J1	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 4 PE 3 / 2 AC 1 AC </div>	J1-PE	PE
		Null	
		J1-AC	220VAC Mains supply input terminal
		J1-AC	
J2	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 3 BK+ 2 LBK- 1 RBK- </div>	J2-BK+	Positive output of brake power supply
		J2-LBK-	Negative output of the second brake power supply
		J2-RBK-	Negative output of the first brake power supply
J3	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 8 +24V 7 GND 6 C+ 5 C- 4 BK-EN 3 GND 2 BK-F 1 GND </div>	J3-24V	24V power supply output. Maximum output current is 5A.
		J3-GND	
		J3-C+	CAN bus communication
		J3-C-	
		J3-BK_EN	The brake power supply output enable control terminal, backup function.
		J3-GND	
		J3-BF_F	Brake power supply fault feedback output (opto-coupler OC output)
		J3-GND	

2. Function introduction

1. Dual-channel brake power supply output. If only a single-channel brake power supply is required, the two-channel brake power supply negative outputs (LBK- and RBK-) should be shorted together for use.
2. Fault feedback for brake output. When the brake voltage output has short-circuit, overcurrent and other faults, it will feedback to the main control board through can bus and hardware signals.
3. The half-voltage holding function of the brake power supply can be realized. The output voltage of the brake power supply can be configured through the motherboard parameters. Relevant parameters are shown in the table below:

Table 2 half-voltage parameters

Parameter address	Parameter Description	Parameter setting range	Default value	Remark
FD-13	Full voltage turn-on time	0~5000ms	2000ms	
FD-14	Full voltage turn-on voltage	48~220V	110V	
FD-15	Half voltage holding voltage	24~ Full voltage turn-on voltage	85V	

4. When the output of the brake power supply is higher than DC110V, the maximum brake opening power is 660w, and the steady-state maintenance output power is about 500w. When the output of the brake power supply is lower than DC110V, the maximum output current of the brake opening is 6A, and the steady-state maintenance output current is about 4.6A.
5. The maximum output current of 24vDC power supply is 5A.

3. Location hole size (The locating dimension is the same as the mass-produced SJT-POBK-V1.2)

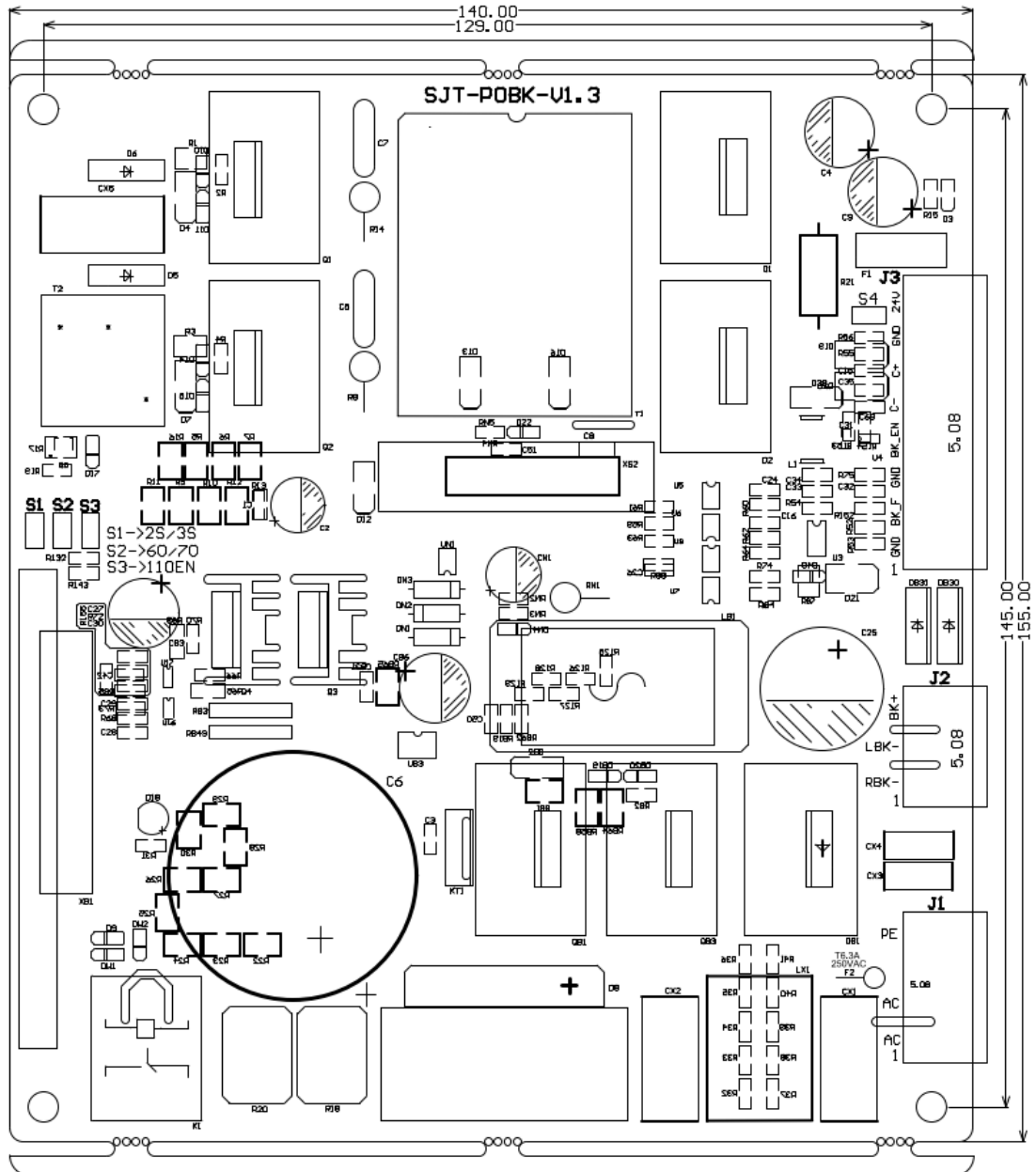


Figure 1 SJT-POBK-V1.3 installation dimension diagram

4. Wiring diagram

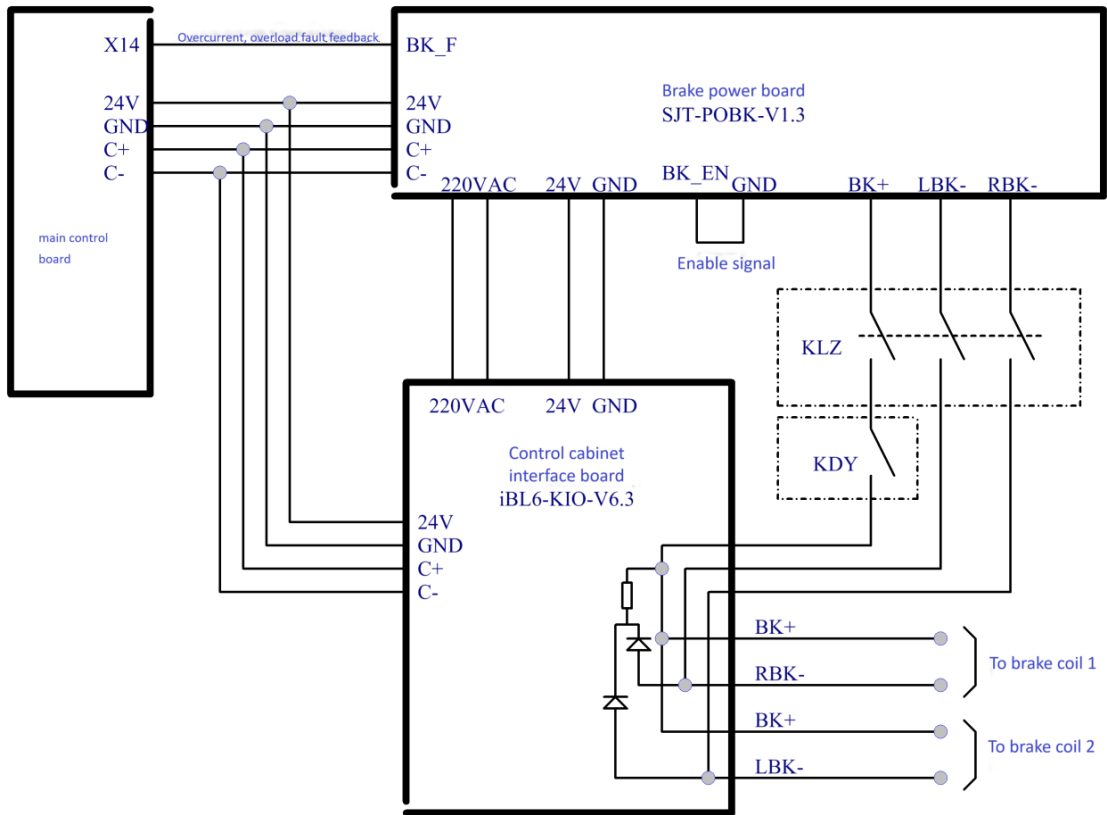


Figure 2 Schematic diagram of system wiring