EPC-TM37 (Expansion IO Card) User Manual

EPC-TM37 is a 24Vdc auxiliary power supply card. To prevent the control board from power failure caused by sudden mains power outage, which may further lead to the interruption of operation commands and disconnection of the PLC/Debug tool, please select our EPC-TM37 expansion IO card. It is applicable to the GK900/ GK920/ GK960/ GK980 series VFD platforms. EPC-TM37 supports one set of external power input, two channels of STO input, one channel of digital input and one channel of digital output.

1. Outline Drawing

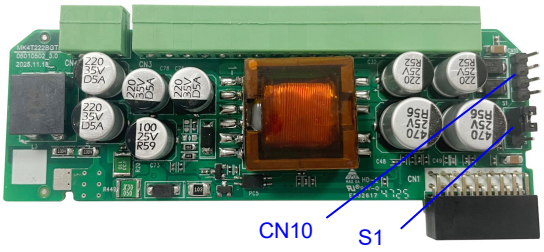


Figure 1 EPC-TM37 Picture

2. Terminal and Jumper Instructions

2.1 wiring terminals instruction

User terminal	Function description
CN10	Firmware flash

2.2 Jumper instruction

On/off	Function description	Default
S1	1. Normal operation, put it to FLASH 2. During flash, put it to SCI	FLASH

3. Wiring instruction

3.1 Physical outline drawing of terminals

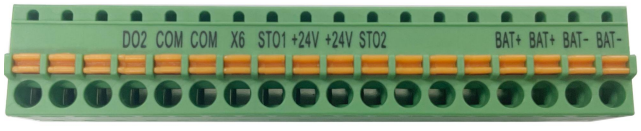


Figure 2 Terminals Picture

Item	Terminals	Name	Specs
Digital outputs	DO2	Open collector output	Voltage range：0~24V Current range：0~50mA Pulse output 50kHz
	COM	+24V reference GND	Isolated from internal GND
External power supply	BAT+		Positive, 24V±10%
	BAT-		Negative

Item	Terminals	Name	Specs
Digital inputs	X6	Digital input 6	Input：24VDC，10mA Frequency range：0~200Hz Voltage：10V~30V Terminal X6 is active low by default. To set it to active high, short the jumper cap on S4 of the standard IO card to COM.
	+24V	+24V	24V±10%, Isolated from internal GND, maximum load 200mA
	COM	+24V reference ground	Isolated from internal GND
	STO1	Safe torque off input 1	The STO function is enabled by default at the factory. To disable the STO function, connect 24V to STO1 and STO2 simultaneously; the input specifications, frequency range and voltage range are the same as those of the digital input terminals.
	STO2	Safe torque off input 2	

Note: A dedicated software must be programmed into the control board when the TM37 card is used.