

FTMST 24-04 SPECIFICATION

GENERAL DESCRIPTION

- FTMST24-04 is a motor control board for two phase Stepper Motors rated up to 24V / 3 Amps

OVERVIEW

- Controls Two Phase Stepper Motor
- Full Step to 1/16 Microstepping

GENERAL FEATURES

- Status LED's indicate Power, Run and Fault conditions
- ENABLE/DISABLE option
- Optically isolated control inputs

OPERATIONAL SPECIFICATION

PARAMETER NAME	MIN	NOM	MAX	UNIT
Power Supply	12	-	24	V
Pulse Frequency @ 1/16 microstep	-	50	-	kHz
Speed Range(Depends on motor)	0.5	200	-	rpm
Continuous Output Current (At 25°C)	-	-	3	A
Operating Temperature Range	0	-	70	°C
Storage Temperature Range	-25	-	85	°C
Control Input Voltage	5	-	10	V

DIRECTION

- By using Direction input (DIRECTION, EX- GND) the direction of the motor can be changed.

STEP INPUT

- According to the step input (PULSE, EX- GND), speed of the motor can be varied from MIN to MAX.

ENABLE/DISABLE

- By giving +5V to Disable Input (DISABLE, EX - GND) we can DISABLE the motor.

LED's

- Run LED - It is ON, Colour GREEN
- Fault LED - Turns ON when Drive is Faulty, Colour RED
- Power LED - Turns ON when Drive is Powered, Colour RED

MICROSTEPPING

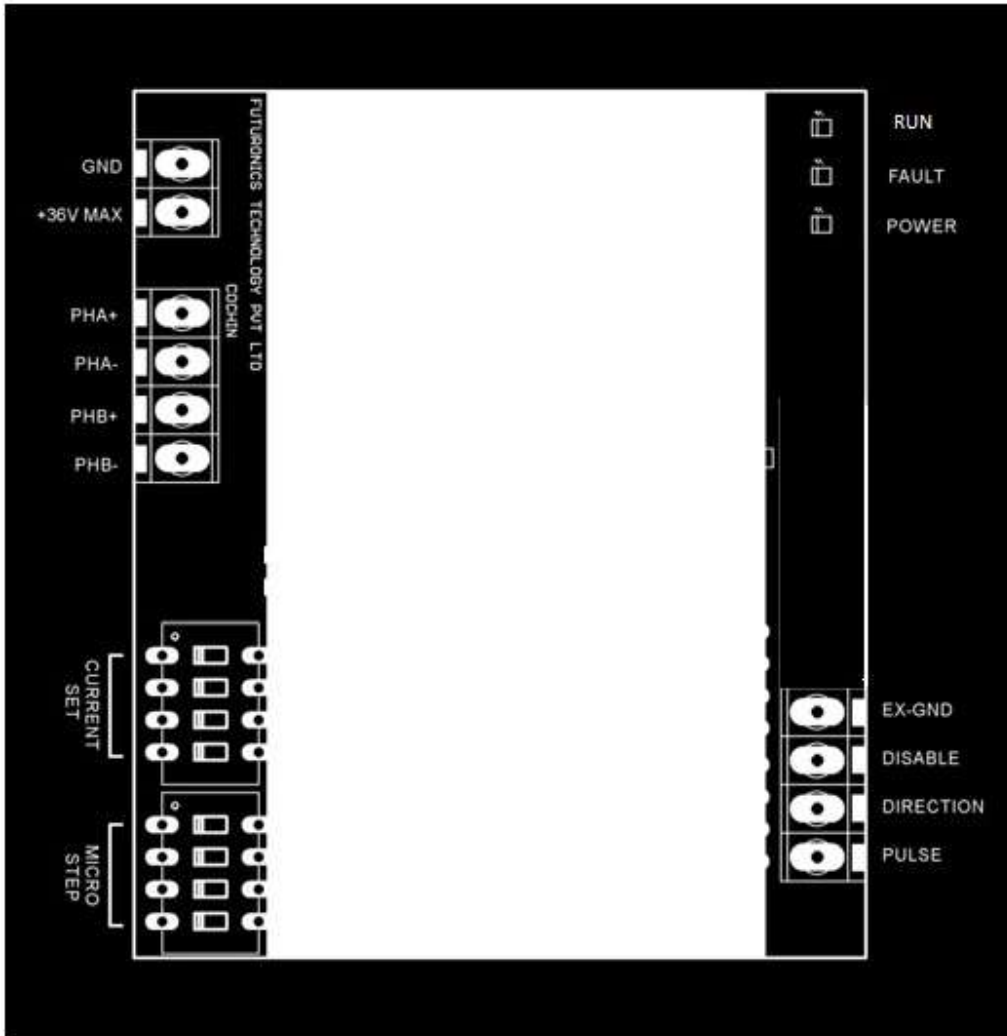
S1	S2	S3	STEP MODE
ON	ON	ON	Stand by
ON	ON	OFF	Full Step
ON	OFF	ON	1/2 Step
ON	OFF	OFF	1/2 Step
OFF	ON	ON	1/4 Step
OFF	ON	OFF	1/8 Step
OFF	OFF	ON	1/16 Step
OFF	OFF	OFF	Stand by

MODE SETTINGS

S4	POWER DOWN MODE
ON	Enable
OFF	Disable

CURRENT SETTING

S1	S2	S3	S4	CURRENT
ON	ON	ON	ON	0.18 Amp
OFF	ON	ON	ON	0.36 Amp
ON	OFF	ON	ON	0.54 Amp
OFF	OFF	ON	ON	0.72 Amp
ON	ON	OFF	ON	0.90 Amp
OFF	ON	OFF	ON	1.08 Amp
ON	OFF	OFF	ON	1.26 Amp
OFF	OFF	OFF	ON	1.44 Amp
ON	ON	ON	OFF	1.62 Amp
OFF	ON	ON	OFF	1.80 Amp
ON	OFF	ON	OFF	1.98 Amp
OFF	OFF	ON	OFF	2.16 Amp
ON	ON	OFF	OFF	2.34 Amp
OFF	ON	OFF	OFF	2.52 Amp
ON	OFF	OFF	OFF	2.70 Amp
OFF	OFF	OFF	OFF	2.88 Amp



*** NOTE : PLEASE USE CABLE SHOES FOR PERFECT CONNECTIONS**