**DESCRIPTION**

The GOTT Stepper Motor Trainer is a PC based system that is used to teach the principles and operations of stepper motors. Stepper motors are motors which rotate one step when supplied with a pulse. They are readily interfaced to microcomputers and other digital devices. The control signals required are virtually always the same, regardless of motor size. Position and speed control through pulse control system by interface PC, Thus, the facilities provided on the GOTT Stepper Motor Trainer enable students to write programs for a small unit that gives experience which is valid for any application of stepping motors.

**FEATURES**

- Industrial stepper motor driver and controller
- Speed and position control
- Linear spindle drive
- Encoder for position checking
- 4mm socket and plug wiring

**MAIN TECHNICAL PARAMETER**

**2-PHASE BIPOLAR MICROSTEP DRIVER**

**GOTT 403A**

**FEATURES**

- Input voltage 24-40 VDC
- Switch selectable motor current from 1.3-3.5 amps/phase
- 15 switch selectable step resolutions both in cemal and binary, up to 51200 steps/rev
- Mode of operation : Step & Direction, CW & CCW
- Up to 200KHz step clock rate
- Optically isolated SVDC differential input for step, direction, enables.
- Dual H-bridge, inaudible PWM amplifier
- Pulse width modulated current control chopping at 20KHz
- Switch selectable idle current reduction 0 or 50%
- Strong protection including over voltage, over current
- LED indicating power and fault status
- Suitable to drive 4 or 8 lead size 11,14,17,23,34

**GENERAL SPECIFICATION**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step Angle</td>
<td>1.8°</td>
</tr>
<tr>
<td>Step Angle Accuracy</td>
<td>±5% (full step, no load)</td>
</tr>
<tr>
<td>Resistance Accuracy</td>
<td>±10%</td>
</tr>
<tr>
<td>Inductance Accuracy</td>
<td>±20%</td>
</tr>
<tr>
<td>Temperature Rise</td>
<td>80°C Max. (rated current, 2 phase on)</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>-20°C ~ +50°C</td>
</tr>
</tbody>
</table>

**EXPERIMENT TOPICS**:

- Principle of a stepping motor
- Spindle drive control
- Wiring with controller and driver
- Position control by configuration pulse number
- Sequence control
- Auto Forward Reverses
- Forward (Right Limit)
- Reverse (Left Limit)
- Timer Counter

**ORDERING INFORMATION**:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL NUMBER</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC STEPPER MOTOR TRAINER</td>
<td>GOTT-STEPPER-403A</td>
<td>282-111</td>
</tr>
</tbody>
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*Proposed design only, subject to changes without any notice.*