

Drive Configuration



Basic Settings | Drive Parameters | Control Parameters | Inputs/Outputs

Operating Mode

- ☐ Continuous Mode (CONTMOD)
- ☐ Stepper Motor Mode (STEPMOD)
- ☒ Analog Position Control Mode (APCMOD)
- ☐ Encoder Mode with encoder as speed sensor
- ☐ Encoder Mode with hall sensor as speed sensor
- ☐ Gearing Mode (GEARMOD)
- ☐ Voltage Mode (VOLTMOD)
- ☐ IxR Speed Control (IXRMOD)

Controller mode

- ☒ Position cont. (M)
- ☐ Velocity cont. (V)
- ☐ Multiplex Mode (NET)

Command Source (SOR)

- ☐ Digital
- ☒ Analog voltage
- ☐ PWM on analog input
- ☐ Current limiting on analog voltage
- ☐ Current limiting on bipolar analog voltage

Optimisation for connected motor

Window Snip

- ☒ Drive enabled (EN)
- ☐ Sequence program enabled (ENPROG)
- ☒ Notify commands enabled (ANSW)
- ☒ Commands with confirmation (ANSW2)

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Position range limits (LL): from: to: Inc
-6,400 mm 6,400 mm

Maximum allowable deviation (DEV): mm/s Target win. (CORRIDOR):

Stepper Motor and Gearing Mode:

Moving direction

☒ right-hand (ADR)

☐ left-hand (ADL)

Step width (STW):

Step number (STN):

Steps per pole pitch

Linear motor in encoder mode:

Resolution of external encoder (ENCRES): Inc / mm (quad pulse number)

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Proportional term (POR):

255



Gain of position controller (PP):

13



Integral term (I):

50



D-term of position cont. (PD):

5



Peak current limit (LPC):

1590



mA

I-term of current controller (CI):

2



Cont. current limit (LCC):

530



mA

Acceleration (AC):

30000



mm/s²

Deceleration (DEC):

30000



mm/s²

Maximum speed (SP):

5000



mm/s

☒ Pure sinus commutation, no block commutation in upper velocity range (SIN)

Sampling rate (SR):

1



x internal sampling rate

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Function of fault pin:

- ☒ Fault output (ERROUT)
- ☐ Pulse output (ENCOUT)
- ☐ Digital output (DIGOUT)
- ☐ Digital input (REFIN)
- ☐ Direction input (DIRIN)
- ☐ Target output (POSOUT)

Delayed current error (DCE):

200

1/100 sec.

Number of output pulses per TM (LPN):

16

Input level

- ☒ Input level 5V-TTL compatible (SETTTL)
- ☐ Input level 24V-PLC compatible (SETPLC)

Input

	1 (<i>Pin In</i>)	2 (<i>Fault</i>)	3
Rising edge resp. high level valid on (HP)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hard blocking on (HB)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Right-hand hard blocking on (HD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Homing sequence

Set position value to 0 (SHA) if edge at	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stop motor (SHL) if edge at	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification (SHN) if edge at	<input type="checkbox"/> -> "h"	<input type="checkbox"/> -> "f"	<input type="checkbox"/> -> "t"

Homing Speed (HOSP):

20

mm/s

☒ "Power On" - Homing Sequence

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