**Motor Driver Parameter**

|  |  |  |  |
| --- | --- | --- | --- |
| **編號** | | **參數** | **連結** |
| **0** | **0x0000\_0000** | **PARA\_CTRL\_MODE** | [**controlMode**](#_Pr-000_:_PARA_CTRL_MODE) |
| **1** | **0x0000\_0001** | **PARA\_SERVO\_ON\_MODE** | [**servoMode**](#_Pr-001_:_PARA_CTRL_MODE) |
| **2** | **0x0000\_0002** | **PARA\_CTRL\_TYPE** | [**controlType**](#_Pr-002_:_PARA_CTRL_TYPE) |
| **8** | **0x0000\_0008** | **PARA\_DRIVER\_NUMBER** | [**DriverNumber**](#_Pr-008_:_PARA_DRIVER_NUMBER) |
| **9** | **0x0000\_0009** | **PARA\_FIRMWARE\_VERSION** | [**FrimwareVersion**](#_Pr-009_:_PARA_FIRMWARE_VERSION) |
| **10** | **0x0000\_000A** | **PARA\_HOME\_ENABLE** | [**homeEnable**](#_Pr-010_:_PARA_HOME_ENABLE) |
| **11** | **0x0000\_000B** | **PARA\_LIMIT\_POS\_ENABLE** | [**limitPosEnable**](#_Pr-011_:_PARA_LIMIT_POS_ENABLE) |
| **12** | **0x0000\_000C** | **PARA\_LIMIT\_NEG\_ENABLE** | [**limitNegEnable**](#_Pr-012_:_PARA_LIMIT_NEG_ENABLE) |
| **20** | **0x0000\_0014** | **PARA\_P\_KP** | [**positionKp**](#_Pr-020_:_PARA_P_KP) |
| **21** | **0x0000\_0015** | **PARA\_P\_BW** | [**positionBw**](#_Pr-021_:_PARA_P_BW) |
| **30** | **0x0000\_001E** | **PARA\_V\_KP** | [**speedKp**](#_Pr-030_:_PARA_V_KP) |
| **31** | **0x0000\_001F** | **PARA\_V\_KI** | [**speedKi**](#_Pr-031_:_PARA_V_KI) |
| **32** | **0x0000\_0020** | **PARA\_V\_BW** | [**speedBw**](#_Pr-032_:_PARA_V_BW) |
| **33** | **0x0000\_0021** | **PARA\_V\_TC** | [**speedTc**](#_Pr-033_:_PARA_V_TC) |
| **40** | **0x0000\_0028** | **PARA\_I\_KP** | [**currentKp**](#_Pr-030_:_PARA_I_KP) |
| **41** | **0x0000\_0029** | **PARA\_I\_KI** | [**currentKi**](#_Pr-041_:_PARA_I_KI) |
| **42** | **0x0000\_002A** | **PARA\_I\_BW** | [**currentBw**](#_Pr-042_:_PARA_I_BW) |
| **43** | **0x0000\_002B** | **PARA\_I\_TC** | [**currentTc**](#_Pr-043_:_PARA_I_TC) |
| **50** | **0x0000\_0032** | **PARA\_P\_CMD** | [**posCmdPara**](#_Pr-050_:_PARA_P_CMD) |
| **60** | **0x0000\_003C** | **PARA\_V\_CMD** | [**spdCmdPara**](#_Pr-060_:_PARA_V_CMD) |
| **61** | **0x0000\_003D** | **PARA\_V\_STEP** | [**spdCmdStep**](#_Pr-061_:_PARA_V_STEP) |
| **62** | **0x0000\_003E** | **PARA\_V\_ACC** | [**spdCmdAcc**](#_Pr-062_:_PARA_V_ACC) |
| **63** | **0x0000\_003F** | **PARA\_V\_DEC** | [**spdCmdDec**](#_Pr-063_:_PARA_V_DEC) |
| **70** | **0x0000\_0046** | **PARA\_IQ\_CMD** | [**curIqCmdPara**](#_Pr-070_:_PARA_IQ_CMD) |
| **71** | **0x0000\_0047** | **PARA\_IQ\_STEP** | [**curIqCmdStep**](#_Pr-071_:_PARA_IQ_STEP) |
| **75** | **0x0000\_004B** | **PARA\_ID\_CMD** | [**curIdCmdPara**](#_Pr-075_:_PARA_ID_CMD) |
| **76** | **0x0000\_004C** | **PARA\_ID\_STEP** | [**curIdCmdStep**](#_Pr-076_:_PARA_ID_STEP) |
| **100** | **0x0000\_0064** | **PARA\_HMI\_ADISP\_CH0** | [**hmiAoCh0**](#_Pr-100_:_PARA_HMI_ADISP_CH0) |
| **101** | **0x0000\_0065** | **PARA\_HMI\_ADISP\_CH1** | [**hmiAoCh1**](#_Pr-101_:_PARA_HMI_ADISP_CH1) |
| **102** | **0x0000\_0066** | **PARA\_HMI\_ADISP\_CH2** | [**hmiAoCh2**](#_Pr-102_:_PARA_HMI_ADISP_CH2) |
| **103** | **0x0000\_0067** | **PARA\_HMI\_ADISP\_CH3** | [**hmiAoCh3**](#_Pr-103_:_PARA_HMI_ADISP_CH3) |
| **110** | **0x0000\_006E** | **PARA\_HMI\_ADISP\_GAIN0** | [**hmiAoGain0**](#_Pr-110_:_PARA_HMI_ADISP_GAIN0) |
| **111** | **0x0000\_006F** | **PARA\_HMI\_ADISP\_GAIN1** | [**hmiAoGain1**](#_Pr-111_:_PARA_HMI_ADISP_GAIN1) |
| **112** | **0x0000\_0070** | **PARA\_HMI\_ADISP\_GAIN2** | [**hmiAoGain2**](#_Pr-112_:_PARA_HMI_ADISP_GAIN2) |
| **113** | **0x0000\_0071** | **PARA\_HMI\_ADISP\_GAIN3** | [**hmiAoGain3**](#_Pr-113_:_PARA_HMI_ADISP_GAIN3) |
| **120** | **0x0000\_0078** | **PARA\_HMI\_ADISP\_OFFSET0** | [**hmiAoOffset0**](#_Pr-120_:_PARA_HMI_ADISP_OFFSET0) |
| **121** | **0x0000\_0079** | **PARA\_HMI\_ADISP\_OFFSET1** | [**hmiAoOffset1**](#_Pr-121_:_PARA_HMI_ADISP_OFFSET1) |
| **122** | **0x0000\_007A** | **PARA\_HMI\_ADISP\_OFFSET2** | [**hmiAoOffset2**](#_Pr-122_:_PARA_HMI_ADISP_OFFSET2) |
| **123** | **0x0000\_007B** | **PARA\_HMI\_ADISP\_OFFSET3** | [**hmiAoOffset3**](#_Pr-123_:_PARA_HMI_ADISP_OFFSET3) |
| **300** | **0x0000\_012C** | **PARA\_CTRLR\_MODE** | [**ctrlrMode**](#_Pr-300_:_PARA_CTRLR_MODE) |
| **310** | **0x0000\_0136** | **PARA\_CTRLR\_HOME\_MODE** | [**homeMode**](#_Pr-310_:_PARA_CTRLR_HOME_MODE) |
| **311** | **0x0000\_0137** | **PARA\_CTRLR\_HOME\_SPEED** | [**homeSpeed**](#_Pr-311_:_PARA_CTRLR_HOME_SPEED) |
| **320** | **0x0000\_0140** | **PARA\_CTRLR\_IN\_POSITION\_RANGE** | [**inPosRange**](#_Pr-320_:_PARA_CTRLR_IN_POSITION_RAN) |
| **321** | **0x0000\_0141** | **PARA\_CTRLR\_ZERO\_SPEED\_RANGE** | [**zeroSpdRange**](#_Pr-321_:_PARA_CTRLR_ZERO_SPEED_RANG) |
| **330** | **0x0000\_014A** | **PARA\_MSD\_TIME** | [**msdTime**](#_Pr-330_:_PARA_MSD_TIME) |
| **340** | **0x0000\_0154** | **PARA\_CMD\_DIR** | [**cmdDir**](#_Pr-340_:_PARA_CMD_DIR) |
| **350** | **0x0000\_015E** | **PARA\_PULSECOMMAND\_TYPE** | [**plsCmdType**](#_Pr-350_:_PARA_PULSECOMMAND_TYPE) |
| **351** | **0x0000\_015F** | **PARA\_PULSECOMMAND\_REVERSE** | [**plsCmdDir**](#_Pr-351_:_PARA_) |
| **400** | **0x0000\_0190** | **PARA\_MOTOR\_TYPE** | [**motorType**](#_Pr-400_:_PARA_MOTOR_TYPE) |
| **405** | **0x0000\_0195** | **PARA\_ENCODER\_TYPE** | [**encoderType**](#_Pr-405_:_PARA_ENCODER_TYPE) |
| **406** | **0x0000\_0196** | **PARA\_ENCODER\_DIR** | [**encoderDir**](#_Pr-406_:_PARA_ENCODER_DIR) |
| **407** | **0x0000\_0197** | **PARA\_ENCODER\_RESOLUTION** | [**encoderResolution**](#_Pr-407_:_PARA_ENCODER_RESOLUTION) |
| **408** | **0x0000\_0198** | **PARA\_ANGLE\_OFFSET** | [**encoderOffset**](#_Pr-408_:_PARA_ENCODER_OFFSET) |
| **509** | **0x0000\_01FD** | **PARA\_SETTING\_PRINTALL** | [**printAll**](#_Pr-509_:_PARA_SETTING_PRINTALL) |
| **510** | **0x0000\_01FE** | **PARA\_SETTING\_RESET** | [**reset**](#_Pr-510_:_PARA_SETTING_RESET) |
| **511** | **0x0000\_01FF** | **PARA\_SETTING\_SAVEALL** | [**saveAll**](#_Pr-511_:_PARA_SETTING_SAVEALL) |

### Pr-000 : PARA\_CTRL\_MODE

**0x0000\_0000**

**Motor drive control mode**

**馬達驅動控制模式**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"controlMode"** |
| **Default value** | **0** |
| **Max value** | **5** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定馬達驅動模式，參數對應驅動模式如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **位置控制模式，位置命令由外部控制器提供** |
| **1** | **位置控制模式，位置命令由驅動器設定** |
| **2** | **速度控制模式，速度命令由驅動器設定** |
| **3** | **電流控制模式，電流閉迴路，角度開迴路，命令由驅動器設定** |
| **4** | **電流控制模式，電流閉迴路，角度開迴路，步進命令，命令由驅動器設定** |
| **5** | **電流控制模式，電流開迴路，角度開迴路，步進命令，命令由驅動器設定** |

### Pr-001 : PARA\_SERVO\_ON\_MODE

**0x0000\_0001**

**Motor drive servo on mode**

**馬達驅動伺服啟動模式**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"servoOnMode"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定馬達驅動伺服啟動模式，並依照設定模式輸入1為伺服啟動，輸入0為伺服關閉，參數對應伺服啟動模式如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **控制器伺服啟動模式，由控制器控制伺服啟動** |
| **1** | **數位輸入伺服啟動模式，由外部數位訊號輸入控制伺服啟動** |

### Pr-002 : PARA\_CTRL\_TYPE

**0x0000\_0002**

**Motor drive control type**

**馬達驅動控制類型**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"controlType"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定馬達驅動類型，參數對應驅動類型如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **伺服驅動模式** |
| **1** | **步進驅動模式** |

### Pr-008 : PARA\_DRIVER\_NUMBER

**0x0000\_0008**

**Motor drive number**

**馬達驅動器編號**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"DriverNumber"** |
| **Default value** |  |
| **Max value** | **0xFFFFFFFF** |
| **Min value** | **0x00000000** |
| **Data sign** | **Hex** |
| **Data type** | **Read only** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數讀取馬達驅動器編號。**

### Pr-009 : PARA\_FIRMWARE\_VERSION

**0x0000\_0009**

**Firmware version**

**韌體版本**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"FirmwareVersion"** |
| **Default value** |  |
| **Max value** | **0xFFFFFFFF** |
| **Min value** | **0x00000000** |
| **Data sign** | **Hex** |
| **Data type** | **Read only** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數讀取驅動器韌體版本。**

**Example:**

**2020152b => 2020年 V15.2b版本**

**20210110 => 2021年 V1.10版本**

### Pr-010 : PARA\_HOME\_ENABLE

**0x0000\_000A**

**Home signal enable**

**原點訊號功能設定**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"HomeEnable"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定原點訊號功能，參數對應功能如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **啟動** |
| **1** | **關閉** |

### Pr-011 : PARA\_LIMIT\_POS\_ENABLE

**0x0000\_000B**

**Positive limit signal enable**

**正極限訊號功能設定**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"limitPosEnable"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定正極限訊號功能，參數對應功能如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **啟動** |
| **1** | **關閉** |

### Pr-012 : PARA\_LIMIT\_NEG\_ENABLE

**0x0000\_000B**

**Negative limit signal enable**

**負極限訊號功能設定**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"limitNegEnable"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定負極限訊號功能，參數對應功能如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **啟動** |
| **1** | **關閉** |

### Pr-020 : PARA\_P\_KP

**0x0000\_0014**

**Position proportional gain**

**位置迴路比例增益**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"positionKp"** |
| **Default value** | **0** |
| **Max value** | **100000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.1%%** |

**參數說明:**

**由此參數設定驅動器位置迴路比例增益。**

**Example:**

**1 => pKp = 0.00001**

**100 => pKp = 0.001**

### Pr-021 : PARA\_P\_BW

**0x0000\_0015**

**Position control bandwidth**

**位置迴路頻寬**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"positionBw"** |
| **Default value** | **0** |
| **Max value** | **0** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定驅動器位置迴路頻寬。**

**功能尚未實現**

### Pr-030 : PARA\_V\_KP

**0x0000\_001E**

**Speed proportional gain**

**速度迴路比例增益**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"speedKp"** |
| **Default value** | **100** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%%** |

**參數說明:**

**由此參數設定驅動器速度迴路比例增益。**

**Example:**

**1 => vKp = 0.0001**

**100 => vKp = 0.01**

### Pr-031 : PARA\_V\_KI

**0x0000\_001F**

**Position integral gain**

**速度迴路積分增益**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"speedKi"** |
| **Default value** | **10** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%%** |

**參數說明:**

**由此參數設定驅動器速度迴路積分增益。**

**Example:**

**1 => vKi = 0.0001**

**100 => vKi = 0.01**

### Pr-032 : PARA\_V\_BW

**0x0000\_0020**

**Speed control bandwidth**

**速度迴路頻寬**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"speedBw"** |
| **Default value** | **0** |
| **Max value** | **0** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定驅動器速度迴路頻寬。**

**功能尚未實現**

### Pr-033 : PARA\_V\_TC

**0x0000\_0021**

**Speed control time constant**

**速度迴路時間常數**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"speedTc"** |
| **Default value** | **0** |
| **Max value** | **0** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定驅動器速度迴路時間常數。**

**功能尚未實現**

### Pr-030 : PARA\_I\_KP

**0x0000\_0028**

**Current proportional gain**

**電流迴路比例增益**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"currentKp"** |
| **Default value** | **100** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%%** |

**參數說明:**

**由此參數設定驅動器電流迴路比例增益。**

**Example:**

**1 => iqKp = 0.0001 ; idKp = 0.0001**

**100 => iqKp = 0.01 ; idKp = 0.01**

### Pr-041 : PARA\_I\_KI

**0x0000\_0029**

**Current integral gain**

**電流迴路積分增益**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"currrentKi"** |
| **Default value** | **10** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%%** |

**參數說明:**

**由此參數設定驅動器電流迴路積分增益。**

**Example:**

**1 => iqKi = 0.0001 ; idKi = 0.0001**

**100 => iqKi = 0.01 ; idKi = 0.01**

### Pr-042 : PARA\_I\_BW

**0x0000\_002A**

**Current control bandwidth**

**電流迴路頻寬**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"currentBw"** |
| **Default value** | **0** |
| **Max value** | **0** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定驅動器電流迴路頻寬。**

**功能尚未實現**

### Pr-043 : PARA\_I\_TC

**0x0000\_002B**

**Current control time constant**

**電流迴路時間常數**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"currentTc"** |
| **Default value** | **0** |
| **Max value** | **0** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定驅動器電流迴路時間常數。**

**功能尚未實現**

### Pr-050 : PARA\_P\_CMD

**0x0000\_0032**

**Position command**

**位置命令**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"posCmdPara"** |
| **Default value** | **0** |
| **Max value** | **0xFFFFFFFF** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **pulse** |

**參數說明:**

**由此參數設定驅動器位置命令。**

**命令範圍為32bits絕對位置命令，命令零點位於驅動器啟動初始位置，不受原點賦歸影響，僅用於位置迴路測試，搭配驅動器控制模式使用。**

**Pr-000 controlMode : 1 => 位置命令為本參數設定值**

**Pr-000 controlMode : 其餘設定 => 本參數設定值無效**

### Pr-060 : PARA\_V\_CMD

**0x0000\_003C**

**Speed command**

**速度命令**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"spdCmdPara"** |
| **Default value** | **0** |
| **Max value** | **2147483647** |
| **Min value** | **-2147483648** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **pulse/s** |

**參數說明:**

**由此參數設定驅動器速度命令。**

**命令受馬達最高轉速限制，如超過馬達最高轉速，將會限制於馬達最高轉速。**

### Pr-061 : PARA\_V\_STEP

**0x0000\_003D**

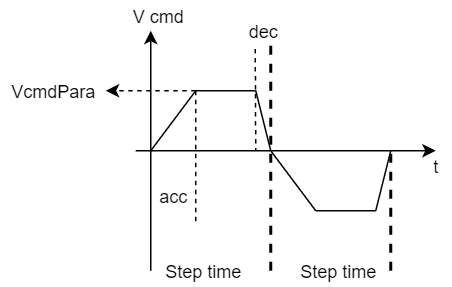
**Speed command step time**

**速度步進命令切換時間**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"spdCmdStep"** |
| **Default value** | **0** |
| **Max value** | **1000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.1s** |

**參數說明:**

**由此參數設定驅動器速度步進命令切換時間。**



### Pr-062 : PARA\_V\_ACC

**0x0000\_003E**

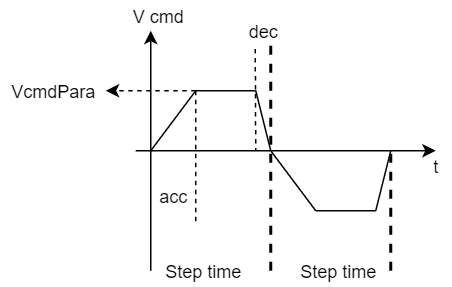
**Speed command acceleration time**

**速度步進加速度時間**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"spdCmdAcc"** |
| **Default value** | **0** |
| **Max value** | **1000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01/s** |

**參數說明:**

**由此參數設定驅動器速度步進命令加速時間。**



### Pr-063 : PARA\_V\_DEC

**0x0000\_003F**

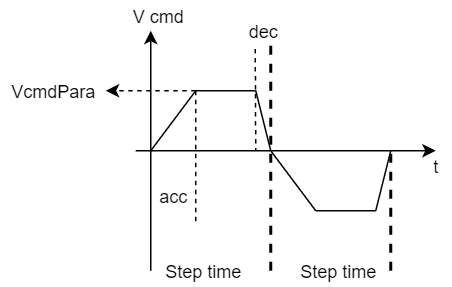
**Speed command deceleration time**

**速度步進減速度時間**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"spdCmdDec"** |
| **Default value** | **0** |
| **Max value** | **1000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01/s** |

**參數說明:**

**由此參數設定驅動器速度步進命令減速時間。**



### Pr-070 : PARA\_IQ\_CMD

**0x0000\_0046**

**Current Q axis command**

**Q軸電流命令**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"curIqCmdPara"** |
| **Default value** | **0** |
| **Max value** | **10000** |
| **Min value** | **-10000** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01%** |

**參數說明:**

**由此參數設定驅動器Q軸電流命令。**

### Pr-071 : PARA\_IQ\_STEP

**0x0000\_0047**

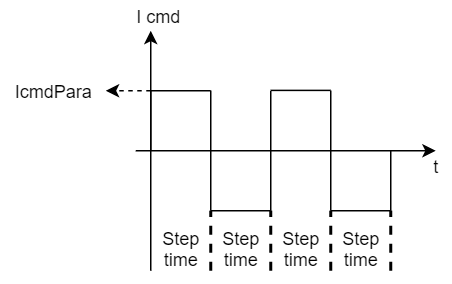
**Current Q axis command step time**

**Q軸電流步進命令切換時間**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"curIqCmdStep"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.1s** |

**參數說明:**

**由此參數設定驅動器Q軸電流步進命令切換時間。**



### Pr-075 : PARA\_ID\_CMD

**0x0000\_004B**

**Current D axis command**

**D軸電流命令**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"curIdCmdPara"** |
| **Default value** | **0** |
| **Max value** | **10000** |
| **Min value** | **-10000** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01%** |

**參數說明:**

**由此參數設定驅動器D軸電流命令。**

### Pr-076 : PARA\_ID\_STEP

**0x0000\_004C**

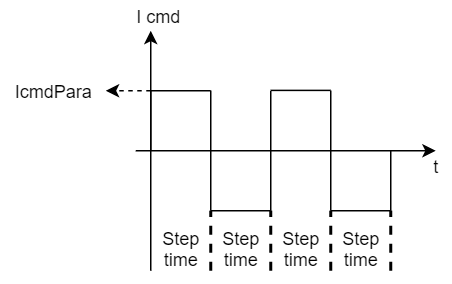
**Current D axis command step time**

**D軸電流步進命令切換時間**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"curIdCmdStep"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.1s** |

**參數說明:**

**由此參數設定驅動器D軸電流步進命令切換時間。**



### Pr-100 : PARA\_HMI\_ADISP\_CH0

**0x0000\_0064**

**HMI analog display channel 0**

**人機介面類比輸出0**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoCh0"** |
| **Default value** | **0** |
| **Max value** | **300** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定人機介面類比輸出0，參數對應輸出資料於附件1。**

### Pr-101 : PARA\_HMI\_ADISP\_CH1

**0x0000\_0065**

**HMI analog display channel 1**

**人機介面類比輸出1**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoCh1"** |
| **Default value** | **0** |
| **Max value** | **300** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定人機介面類比輸出1，參數對應輸出資料於附件1。**

### Pr-102 : PARA\_HMI\_ADISP\_CH2

**0x0000\_0066**

**HMI analog display channel 2**

**人機介面類比輸出2**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoCh2"** |
| **Default value** | **0** |
| **Max value** | **300** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定人機介面類比輸出2，參數對應輸出資料於附件1。**

### Pr-103 : PARA\_HMI\_ADISP\_CH3

**0x0000\_0067**

**HMI analog display channel 3**

**人機介面類比輸出3**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoCh3"** |
| **Default value** | **0** |
| **Max value** | **300** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定人機介面類比輸出3，參數對應輸出資料於附件1。**

### Pr-110 : PARA\_HMI\_ADISP\_GAIN0

**0x0000\_006E**

**HMI analog display gain channel 0**

**人機介面類比輸出0輸出比例**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain0"** |
| **Default value** | **100** |
| **Max value** | **10000** |
| **Min value** | **-10000** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01%** |

**參數說明:**

**由此參數設定人機介面類比輸出0輸出比例。**

### Pr-111 : PARA\_HMI\_ADISP\_GAIN1

**0x0000\_006F**

**HMI analog display gain channel 1**

**人機介面類比輸出1輸出比例**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain1"** |
| **Default value** | **100** |
| **Max value** | **10000** |
| **Min value** | **-10000** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01%** |

**參數說明:**

**由此參數設定人機介面類比輸出1輸出比例。**

### Pr-112 : PARA\_HMI\_ADISP\_GAIN2

**0x0000\_0070**

**HMI analog display gain channel 2**

**人機介面類比輸出2輸出比例**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain2"** |
| **Default value** | **100** |
| **Max value** | **10000** |
| **Min value** | **-10000** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01%** |

**參數說明:**

**由此參數設定人機介面類比輸出2輸出比例。**

### Pr-113 : PARA\_HMI\_ADISP\_GAIN3

**0x0000\_0071**

**HMI analog display gain channel 3**

**人機介面類比輸出3輸出比例**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain3"** |
| **Default value** | **100** |
| **Max value** | **10000** |
| **Min value** | **-10000** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **0.01%** |

**參數說明:**

**由此參數設定人機介面類比輸出3輸出比例。**

### Pr-120 : PARA\_HMI\_ADISP\_OFFSET0

**0x0000\_0078**

**HMI analog display offset channel 0**

**人機介面類比輸出0輸出偏移**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain0"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **-100** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%** |

**參數說明:**

**由此參數設定人機介面類比輸出0輸出偏移。**

### Pr-121 : PARA\_HMI\_ADISP\_OFFSET1

**0x0000\_0079**

**HMI analog display offset channel 1**

**人機介面類比輸出1輸出偏移**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain1"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **-100** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%** |

**參數說明:**

**由此參數設定人機介面類比輸出1輸出偏移。**

### Pr-122 : PARA\_HMI\_ADISP\_OFFSET2

**0x0000\_007A**

**HMI analog display offset channel 2**

**人機介面類比輸出2輸出偏移**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain2"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **-100** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%** |

**參數說明:**

**由此參數設定人機介面類比輸出2輸出偏移。**

### Pr-123 : PARA\_HMI\_ADISP\_OFFSET3

**0x0000\_007B**

**HMI analog display offset channel 3**

**人機介面類比輸出3輸出偏移**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"hmiAoGain3"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **-100** |
| **Data sign** | **Signed data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** | **%** |

**參數說明:**

**由此參數設定人機介面類比輸出3輸出偏移。**

### Pr-300 : PARA\_CTRLR\_MODE

**0x0000\_012C**

**Controller mode**

**控制器模式**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"ctrlrMode"** |
| **Default value** | **0** |
| **Max value** | **10** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定控制器模式，參數對應控制器如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **UART控制模式** |
| **1** | **SPI控制模式** |
| **2** | **PULSE控制模式** |
| **3-10** | **Reserved** |

### Pr-310 : PARA\_CTRLR\_HOME\_MODE

**0x0000\_0136**

**Find home mode**

**原點復歸模式設定**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"homeMode"** |
| **Default value** | **0** |
| **Max value** | **3** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定原點復歸模式，參數對模式如下表所示，模式說明於附件2。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **正極限原點復歸** |
| **1** | **負極限原點復歸** |
| **2** | **原點訊號負方向賦歸** |
| **3** | **原點訊號正方向賦歸** |

### Pr-311 : PARA\_CTRLR\_HOME\_SPEED

**0x0000\_0137**

**Find home speed**

**原點復歸速度設定**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"homeSpeed"** |
| **Default value** | **0** |
| **Max value** | **2147483647** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** | **pulse/s** |

**參數說明:**

**由此參數設定原點復歸速度。**

### Pr-320 : PARA\_CTRLR\_IN\_POSITION\_RANGE

**0x0000\_0140**

**In position range**

**位置定位完成範圍**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"inPosRange"** |
| **Default value** | **0** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** | **pulse** |

**參數說明:**

**由此參數設定位置定位完成範圍。**

### Pr-321 : PARA\_CTRLR\_ZERO\_SPEED\_RANGE

**0x0000\_0141**

**Zero speed range**

**零速度範圍**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"zeroSpdRange"** |
| **Default value** | **0** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** | **RPM** |

**參數說明:**

**由此參數設定零速度範圍。**

### Pr-330 : PARA\_MSD\_TIME

**0x0000\_014A**

**Deceleration stop time**

**減速停止時間**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"msdTime"** |
| **Default value** | **0** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** | **ms** |

**參數說明:**

**由此參數設定減速停止時間。**

### Pr-340 : PARA\_CMD\_DIR

**0x0000\_0154**

**Command direction**

**輸入命令方向**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"cmdDir"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定輸入命令方向，參數對應方向如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **正常** |
| **1** | **反向** |

### Pr-350 : PARA\_PULSECOMMAND\_TYPE

**0x0000\_015F**

**Pulse command type**

**脈波命令模式**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"plsCmdType"** |
| **Default value** | **0** |
| **Max value** | **2** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定脈波命令模式，參數對應模式如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **脈波+方向訊號** |
| **1** | **正向脈波+反向脈波** |
| **2** | **正交脈波** |

### Pr-351 : PARA\_ PULSECOMMAND\_DIR

**0x0000\_015F**

**Pulse command direction**

**脈波命令方向**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"plsCmdDir"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定脈波命令方向，參數對應方向如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **正常** |
| **1** | **反向** |

### Pr-400 : PARA\_MOTOR\_TYPE

**0x0000\_0190**

**Motor type**

**馬達種類**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"motorType"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定馬達種類，參數對應輸出資料於附件3。**

### Pr-405 : PARA\_ENCODER\_TYPE

**0x0000\_0195**

**Encoder type**

**編碼器種類**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"motorType"** |
| **Default value** | **0** |
| **Max value** | **100** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on unlock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定編碼器種類，參數對應輸出資料於附件4。**

### Pr-406 : PARA\_ENCODER\_DIR

**0x0000\_0196**

**Encoder direction**

**編碼器命令方向**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"encoderDir"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定編碼器命令方向，參數對應方向如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **正常** |
| **1** | **反向** |

### Pr-407 : PARA\_ENCODER\_RESOLUTION

**0x0000\_0197**

**Encoder resolution**

**編碼器解析度**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"encoderResolution"** |
| **Default value** | **0** |
| **Max value** | **0xFFFFFFFF** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** | **pulse** |

**參數說明:**

**由此參數設定編碼器解析度。**

### Pr-408 : PARA\_ENCODER\_OFFSET

**0x0000\_0198**

**Encoder offset**

**編碼器角度偏移**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"encoderOffset"** |
| **Default value** | **0** |
| **Max value** | **10000** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and read** |
| **Data lock** | **Servo on lock** |
| **Data unit** | **%%** |

**參數說明:**

**由此參數設定編碼器角度偏移。**

### Pr-509 : PARA\_SETTING\_PRINTALL

**0x0000\_01FD**

**Parameter print all**

**顯示參數資料**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"printAll"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and reserved** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定顯示參數資料，輸入對應動作如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **無作動** |
| **1** | **顯示參數資料** |

### Pr-510 : PARA\_SETTING\_RESET

**0x0000\_01FE**

**Parameter reset**

**重設參數資料**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"reset"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and reserved** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定重設參數資料，輸入對應動作如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **無作動** |
| **1** | **重設參數資料** |

### Pr-511 : PARA\_SETTING\_SAVEALL

**0x0000\_01FF**

**Parameter save all**

**儲存參數資料**

|  |  |
| --- | --- |
| **參數資料** | |
| **Parameter name** | **"saveAll"** |
| **Default value** | **0** |
| **Max value** | **1** |
| **Min value** | **0** |
| **Data sign** | **Unsigned data** |
| **Data type** | **Write and reserved** |
| **Data lock** | **Servo on lock** |
| **Data unit** |  |

**參數說明:**

**由此參數設定儲存參數資料，輸入對應動作如下表所示。**

|  |  |
| --- | --- |
| **值** | **說明** |
| **0** | **無作動** |
| **1** | **儲存參數資料** |