

2-AXIS DRIVE 5A [Stand Alone Type]

WE2A-D048/05-FS04A5-EC

(Size : 106.5×78×25mm)



W : 200g

Ratings	01	02	05
Continuous Output Current A(rms)	1	2	5
Peak Output Current A(rms)	2	4	10

Basic Specifications		
Feature	Specification	
Number of control axes	2	
Motors	DC / BLDC / PMSM / VCM	Rotary servo motors, Linear servo motors
Current(Torque) Control	Control Periodic	20KHz
	Control Loop	PI + Feed-forward
Velocity & Position Control	Control Periodic	4KHz
	Control Loop	Cascade P/PI + Feed-forward
	Filters	First order low pass filter, Four notch filters, First order adaptive windowing filters
Reference Command	Current / Velocity / Position	USB, CAN(CANopen), EtherCAT(CoE, FoE)
Auto Tuning	Method	Automatic self-configuration and optimization of motor phasing, wires, current loop, velocity control loop.
GUI	User Interface	WELSS(WelconServoStudio), Setting, Drive, Motor, Feedback, I/O, Motion
Input Voltage	12~48VDC (H/W Limit 10~60V)	
Protective Functions	Under- and over-voltage, Over-current, Over-load(with I ² T), Drive over-temperature	
Environment	<ul style="list-style-type: none"> • Ambient temperature : Operation 0~50°C, Storage 0~70°C • Humidity : 10~90% • Vibration : 1.0g 	
Compliance Standard	CE, KC	

Communication		
Feature	Specification	
USB	<ul style="list-style-type: none"> • Baud rate : up to 3Mbps • Maximum cable length : 3m 	
CAN	Bit rate : 125kbps ~1Mbps	
EtherCAT	100Mbps, Communication cycle time : up to 250µs	
RS-485	Not Supported	

I/O		
Feature	Specification	
Analog Input	Quantity	1x2
	Voltage Range	Analog ±10 VDC differential
	Input Resolution	14 bit
Digital Inputs	Quantity	6x2
	Signal	Configurable. Opto-isolated.
	Voltage	24V
Digital Outputs	Quantity	2x2
	Signal	Configurable. Opto-isolated.
	Voltage	24V
	Max. Output Current	100mA
Brake	Use one of digital outputs (100mA)	

Motor Feedback		
Feature	Specification	
General	Supply Voltage	5VDC
Incremental Encoder	Signal	A-quad-B with or without index, RS422, Differential
	A-quad-B Max Input Frequency	10MHz (before quadrature)
Digital Hall Sensor	Signal	Single-ended
	Type	Separated hall sensor
Analog Hall Sensor	Signal	Not Supported
	Sampling Frequency	
Sin/Cos Encoder	Signal	Not Supported
	Sampling Frequency	
Serial Encoder	Type	SSI, BISS-C, Tamagawa, Panasonic, EnDat2.x
	Bite rate	0.5Mbps, 1Mbps, 2Mbps, 2.5Mbps, 5Mbps

In the case of 8 axes
(Size : 110×74×100mm)
(W : 620g)

