

2-AXIS DRIVE 10A [Stand Alone Type]

WE2A-D048 / 10-FS0007-C

(Size : 125.4×81×35mm)



W:366g

Ratings	10
Continuous Output Current A	10
Peak Output Current A	20

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)
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	• Motor Voltage : 12~48VDC (H/W Limit 10~60V) • Control Voltage : 24VDC (H/W Limit 10~30V)	
Protective Functions	Under- and over-voltage, Over-current, Over-load (with I ² T), Drive over-temperature	
Environment	• Ambient temperature : Operation 0~50°C, Storage 0~70°C • Humidity : 10~90% • Vibration : 1.0g	
Compliance Standard	CE, KC	

Communication		
Feature	Specification	
USB	• Baud rate : up to 3Mbps • Maximum cable length : 3m	
CAN	Bit rate : 125kbps ~ 1Mbps	
EtherCAT	Not Supported	
RS-485	Not Supported	

I/O		
Feature	Specification	
Analog Input	Quantity	Not Supported
	Voltage Range	
	Input Resolution	
Digital Inputs	Quantity	6x2
	Signal	Configurable. Opto-isolated.
	Voltage	24V
Digital Outputs	Quantity	2x2
	Signal	Configurable. Opto-isolated.
	Voltage	24V
	Max. Output Current	40mA
Brake	Use one of digital outputs (40mA)	

Motor Feedback		
Feature	Specification	
General	Supply Voltage	5VDC
Incremental Encoder	Signal	CH1 : A-quad-B with or without index, RS422, Differential CH2 : A-quad-B with or without index, Single-ended
	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	Not Supported
	Bite rate	