

STANDARD SERVO DRIVE

WER-D048/25-FS0005-C

(Size : 114.5×88×35mm)



W:434g

Ratings	25
Continuous Output Current A rms	25
Peak Output Current A rms	58

Basic Specifications		
Feature	Specification	
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	2KHz
	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 + 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
Protective Functions	Under- and over-voltage, Over-current, Over-load(with I ² T), Drive over-temperature	
Environment	• Ambient temperature : Operation 0-45 °C, Storage 0-70 °C • Humidity : 10-90% • Vibration : 1.0g	

Communication	
Feature	Specification
CAN	CANopen – CiA 301 application layer and CiA 402 device profile for drives and motion control Bit rate : 125kbps ~1Mbps
USB	Baud rate : up to 2Mbps Maximum cable length 3m

I/O		
Feature	Specification	
Digital Inputs	Quantity	6 (with STO)
	Signal	Configurable. Opto-isolated.
	Voltage	24V
Digital Outputs	Quantity	2
	Signal	Configurable. Opto-isolated. Open collector.
	Voltage	24V
	Max. Output Current	45 mA

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	Differential
	Type	Separated hall sensor

Conversion Board



WET-DE-SH-14P

- Size : 40mm x 50mm x 14mm
- Purpose : Differential Encoder
+ Single-ended Digital Hall Sensor
- Connecting Terminal : 14P



WET-SE-SH-10P

- Size : 40mm x 36mm x 14mm
- Purpose : Single-ended Encoder
+ Single-ended Digital Hall Sensor
- Connecting Terminal : 10P